ACIDIC PRECIPITATION IN ONTARIO STUDY

DAILY PRECIPITATION CHEMISTRY LISTINGS 1987

JULY 1990

Ontario
Environment
Environnement
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1987

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Air Resources Branch
Ontario Ministry of the Environment

JULY 1990

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PART I

INTRODUCTION

INTRODUCTION

The data listed herein are a summary of the 1987 results acquired from the APIOS daily precipitation sampling network. All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The screening procedure involved checking each record for chemical analysis integrity (e.g. ionic balance, observed vs. theoretical conductance). Gross limit checks were applied to the results. Upper limits were determined as M + 2S where median (M) and scale (S) represent robust estimates of the mean and standard deviation respectively. Scale of the distribution was determined from interquartile distance, i.e. S = 0.74 (3rd quartile - 1st quartile) distribution is significantly bounded by reported detection limits, S may be estimated as follows, S = 1.48 (3rd quartile - 2nd quartile). Lower gross limits were specified by the above method except for those parameters with minimum values at or near the detection limit (Mg, K and Na). For these parameters a lower gross limit of zero was utilized. The data were also screened for outliers statistically by applying the Dixon Ratio test to the highest and lowest values observed in each region on a daily basis. Outliers were determined at the 95% level of confidence. Records and/or results deemed unreliable were flagged not delayed. Detailed description of the validation procedures as applied to this data set is available from the Ministry upon request.

Station Identification

The station identification is defined by four descriptive fields (e.g. Dorset/Daily/Aerochem #8). The first field refers to the sampling location. The second and third fields describe the sampling interval and the instrumentation used respectively. The last numeric field refers to the index code utilization on the location map.

Daily Precipitation Chemistry Listings

Sample type, as coded in the data listings, represents the best guess of the type of event which was sampled. All chemical analysis were done on unfiltered sampler. Lab pH entries represent pH measurements at the main MOE Laboratory in Toronto while field pH entries represent measurements at regional laboratories. Remarks codes (e.g., U,A) appended to individual results are defined in a later section. The tabulated results for "Free H" were calculated from the reported Lab pH. Total hydrogen results, reported as "Total H", represent either a gram analysis titration or a titration of the sample with NaOH to an end point pH of 8.3.

Calculation of Equivalent Precipitation Depth (mm)

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collection (ml)} \times 15.6}{1000}$$

Calculation of Observed Sampling Efficiency

$$\% \text{ Efficiency} = \frac{\text{Equivalent Precipitation Depth (mm)} \times 100\%}{\text{Gauge Depth (mm)}}$$

If the sample collection efficiency is less than 50% or greater then 120% and if any of the field comment codes which affect sample collection efficiency (i.e. "F", "G", "H", "I", "J", "K", "L", "P", and "M") is appended to the sample record, then the sample collection efficiency is flagged as unreliable.

Field Comment Code Index

A - Insect in sample
B - Leaves in sample
C - Particulates in sample
D - Fibres in sample
E - Sample not submitted
G - Sample spilled or leaked
H - Volume incorrect
J - Event(s) missed
J - Wet side open when not precipitating
K - No precipitation collected
L - Part of event missed
M - Dry side open when precipitating
P - Gauge depth incorrect
Q - Other

Office Comment Code Index

C - Poor calculated vs. observed conductance comparison
J - pH Large
H - Poor calculated vs. observed pH comparison
M - Poor ionic balance
N - Abnormal sample collection efficiency
T - Free H^+ exceeds total H^+
Y - Collection sample remained in excess of 24 hours with event(s) only occurring in the first 24 hours
Y2 - Sampling period equal to two days
Y3 - Sampling period equal to three days
Y4 - Sampling period equal to four days
Z - Non-standard collection period with one or more events collection after 24 hours

Results Remark Code Index

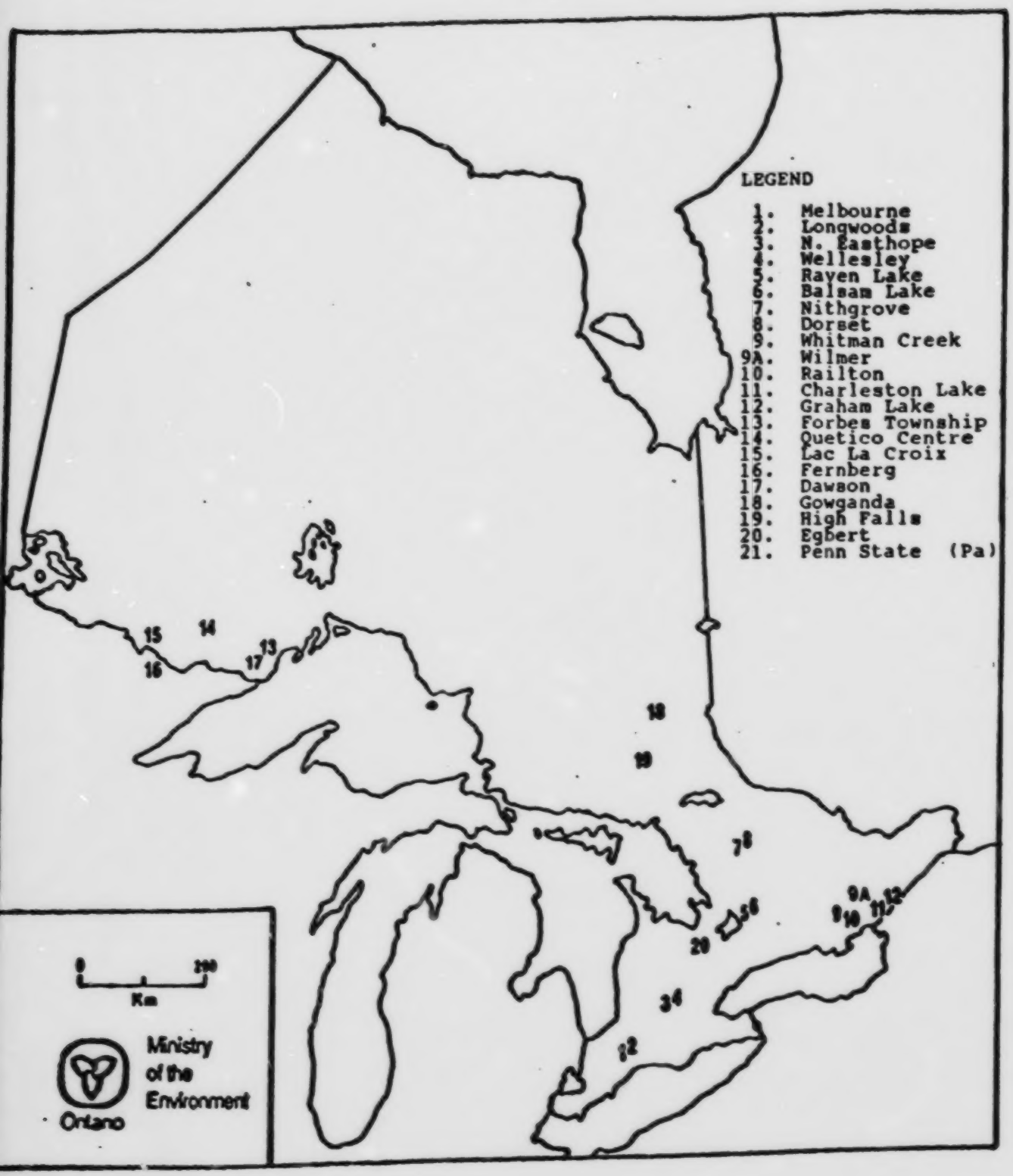
> -	actual results greater than value reported
< -	actual result less than value reported
<T -	actual result less than criterion of detection
<W -	no response, minimum possible results reported
A -	approximate value
U -	unreliable result
LG -	exceedance of Lower Gross Limit Checks
UG -	exceedance of Upper Gross Limit Checks
D -	outlier of Dioxin Ratio Test
B -	exceedance of Gross Limit Checks and Outlier of Dioxin Ratio Tests

PART II

STATION DESCRIPTION AND LOCATION MAP

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS-ACIDIC PRECIPITATION IN ONTARIO STUDY
DAILY PRECIPITATION SITES

STATION ID	MOE REGION	STATION NAME	ELEV (M)	LATITUDE (NORTH)	LONGITUDE (WEST)	UTM GRID CO-ORDINATES (NORTHING)	(EASTING)
000002-02-01-1011	SOUTHWESTERN	LONGWOODS	239	42°53'03"	81°28'50"	4747849	460756
000002-02-01-1021	SOUTHWESTERN	MELBOURNE	213	42°47'12"	81°33'27"	4737061	454401
000002-02-01-1031	SOUTHWESTERN	NORTH EASTHOPE	375	43°24'22"	80°53'45"	4805705	508434
000002-02-01-2011	SOUTHWESTERN	WELLESLEY	344	43°28'05"	80°45'33"	4812606	519481
000002-02-01-2031	SOUTHWESTERN	EGBERT	253	44°13'57"	79°46'53"	4898202	597322
000002-02-01-3011	CENTRAL	DORSET	320	45°13'25"	78°55'51"	5009657	662451
000002-02-01-3021	CENTRAL	NITHGROVE	325	45°12'03"	78°04'12"	5009221	730127
000002-02-01-3031	CENTRAL	BALSAM LAKE	259	44°37'45"	78°51'22"	4943776	670063
000002-02-01-3041	CENTRAL	RAVEN LAKE	274	44°36'40"	78°54'43"	4941655	665686
000002-02-01-4011	SOUTHEASTERN	CHARLESTON LAKE	92	44°29'50"	76°02'40"	4927414	416963
000002-02-01-4021	SOUTHEASTERN	RAILTON	152	44°22'34"	74°34'45"	4913518	533527
000002-02-01-4031	SOUTHEASTERN	GRAHAM LAKE	130	44°34'50"	76°51'45"	4940930	749090
000002-02-01-4081	SOUTHEASTERN	GOLDEN LAKE	160	45°36'48"	77°12'03"	5053226	328397
000002-02-01-4101	SOUTHEASTERN	WILMER	125	44°26'23"	76°31'50"	4921637	378195
000002-02-01-5061	NORTHEASTERN	GOWGANDA	343	47°39'04"	80°46'32"	5277329	516647
000002-02-01-5171	NORTHEASTERN	HIGH FALLS	215	46°22'55"	81°32'43"	5136412	458068
000002-02-01-6051	NORTHWESTERN	FERNBERG	506	47°56'51"	91°29'26"	5311349	612714
000002-02-01-6071	NORTHWESTERN	QUETICO CENTRE	420	48°24'44"	91°12'08"	5363461	633036
000002-02-01-6131	NORTHWESTERN	DAWSON	381	48°33'38"	89°38'60"	5381779	304475
000002-02-01-7011	QUEBEC	SUTTON	243	45°04'35"	72°40'35"	4993846	682898
000002-02-01-7021	PENNSYLVANIA	PENN. STATE	120	40°47'18"	77°56'47"	4519229	251390


LEGEND
1. Melbourne
2. Longwoods
3. N. Easthope
4. Wellesley
5. Raven Lake
6. Balsam Lake
7. Nithgrove
8. Dorset
9. Whitman Creek
9A. Wilmer
10. Railton
11. Charleston Lake
12. Graham Lake
13. Forbes Township
14. Quetico Centre
15. Lac La Croix
16. Fernberg
17. Dawson
18. Gowganda
19. High Falls
20. Egbert
21. Penn State (Pa)
0
200
Km
Ministry of the Environment
Ontario

PART III

CENTRAL REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 606

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 5,87	JAN 2,87	800	930	2200	200	2	1.2	2	42368	2	1	146		N
JAN 7,87	JAN 6,87	800	755	500	730	3	2.2	2	42369	2	1	129		N
JAN 8,87	JAN 7,87	755	755	600	745	2	0.1	2	42370	2	1	31	E	N
JAN 9,87	JAN 8,87	755	755	2000	700	2	1.1	2	42371	2	1	114		
JAN 11,87	JAN 10,87	500	945	500	1800	2	8.3	2	42372	2	1	75		
JAN 15,87	JAN 14,87	800	750	500	730	3	0.1	2	42373	2	1	686		N
JAN 18,87	JAN 17,87	800	950	100	900	1	9.0	2	42374	2	1	96		
JAN 21,87	JAN 20,87	800	750	1515	2300	2	0.1	2	42375	2	1	46	E	N
JAN 23,87	JAN 22,87	800	755	1800	700	2	2.4	2	42376	2	1	89		
JAN 24,87	JAN 23,87	755	930	1600	600	2	5.4	2	42377	2	1	78		C
JAN 25,87	JAN 24,87	930	1000	1530	300	2	6.2	2	42378	2	1	57		C
JAN 29,87	JAN 28,87	800	755	100	400	2	0.1	2	42379	2	1	296		N
JAN 30,87	JAN 29,87	755	755	400	755	2	3.2	2	42380	2	1	59		N
JAN 31,87	JAN 30,87	755	930	755	700	2	9.1	2	42381	2	1	61		
FEB 2,87	FEB 1,87	800	755	1000	500	2	0.4	2	42382	2	1	273		N
FEB 3,87	FEB 2,87	755	750	200	700	2	3.4	2	42383	2	1	109		
FEB 5,87	FEB 4,87	800	755	1100	1500	2	1.4	2	42384	2	1	69		
FEB 7,87	FEB 6,87	800	930	1700	700	2	1.2	2	42385	2	1	171		N
FEB 8,87	FEB 7,87	930	1030	200	1030	2	14.0	2	42386	2	1	71		
FEB 9,87	FEB 8,87	1030	755	1030	400	2	4.1	2	42387	2	1	24	C	N
FEB 10,87	FEB 9,87	755	750	****	****	2	0.2	2	42388	2	1	226		N
FEB 13,87	FEB 12,87	800	755	1800	2300	2	0.4	2	42389	2	1	249		N
FEB 23,87	FEB 22,87	800	755	1700	700	2	1.0	2	42391	2	1	95		HCN
MAR 1,87	FEB 28,87	800	1030	100	1030	2	2.3	2	42393	2	1	303		N
MAR 2,87	MAR 1,87	1030	755	1030	755	3	22.3	2	42394	2	1	77		
MAR 3,87	MAR 2,87	755	750	1000	730	2	1.4	2	42397	2	1	51		
MAR 26,87	MAR 25,87	800	800	****	****	1	5.2	2	42398	2	1	116		
MAR 30,87	MAR 29,87	800	755	400	755	1	7.2	2	42399	2	1	127	A	N
MAR 31,87	MAR 30,87	755	850	755	850	3	32.0	2	42400	2	1	69		
APR 1,87	MAR 31,87	850	755	850	755	2	10.0	2	42401	2	1	74		
APR 2,87	APR 1,87	755	755	2200	600	2	3.4	2	42402	2	1	30		N
APR 3,87	APR 2,87	755	750	900	600	2	0.3	2	42403	2	1	197		N
APR 5,87	APR 4,87	800	900	1000	600	1	10.0	2	42404	2	1	143		MC
APR 15,87	APR 14,87	800	755	2305	600	1	0.2	2	42405	2	1	530		N
APR 24,87	APR 23,87	800	755	900	1600	1	0.4	1	42406	2	1	140		N
APR 28,87	APR 27,87	800	755	1600	745	1	7.1	1	42407	2	1	98		J
APR 29,87	APR 28,87	755	750	900	500	1	4.2	1	42408	2	1	110		
APR 30,87	APR 29,87	750	755	845	2300	1	4.3	1	42409	2	1	107		J
MAY 11,87	MAY 10,87	800	755	500	745	1	12.1	1	42411	2	1	104		JH
MAY 12,87	MAY 11,87	755	750	200	200	1	5.0	1	42412	2	1	103		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 3,87	JAN 2,87	113.0		7.3		4.77		4.86		******		0.0283		0.30		0.20	
JAN 7,87	JAN 6,87	182.0		96.2	LG	3.75		3.73		******		0.2050		5.65		2.75	
JAN 8,87	JAN 7,87	2.0		******		******		******		******		******		******		******	
JAN 9,87	JAN 8,87	81.0		30.0		******	B	6.71		******		0.0170		5.80		0.91	
JAN 11,87	JAN 10,87	404.0		16.8		4.41		4.60		******		0.0481		0.50		0.48	
JAN 15,87	JAN 14,87	44.0	>	100.0		******		3.69		******	UG	0.2990		6.30		2.89	
JAN 16,87	JAN 17,87	555.0	D	21.7		4.38		4.54		******		0.0542		0.65		0.67	
JAN 21,87	JAN 20,87	3.0		******		******		******		******		******		******		******	
JAN 23,87	JAN 22,87	138.0		31.0		4.19		4.31		******		0.0756		0.55		1.03	
JAN 24,87	JAN 23,87	272.0		4.8	UG	5.20		5.49		******		0.0175		0.25	LG	0.10	
JAN 25,87	JAN 24,87	228.0		4.7	UG	5.17		5.47		******		0.0175		0.30		0.12	
JAN 29,87	JAN 28,87	19.0		27.8		******		4.45		******		0.0659		1.35		0.79	
JAN 30,87	JAN 29,87	122.0		29.5		4.16		4.30		******		0.0797		0.60		0.80	
JAN 31,87	JAN 30,87	356.0		39.0		4.09		4.23		******		0.0991		1.60		1.00	
FEB 2,87	FEB 1,87	70.0		38.1		******		4.24		******		0.0978		1.50		0.99	
FEB 3,87	FEB 2,87	238.0		25.4		4.36		4.53		******		0.0604		1.60		0.72	
FEB 5,87	FEB 4,87	62.0	D	40.2		******		4.29		******	D	0.0763	D	3.65		1.80	
FEB 7,87	FEB 6,87	132.0		19.1		4.52		4.56		******		0.0478		1.55		0.80	
FEB 8,87	FEB 7,87	642.0		26.9		4.35		4.46		******	UG	0.7200		2.50		1.20	
FEB 9,87	FEB 8,87	64.0		8.3		******		5.08		******	UG	0.3790		0.45		0.36	
FEB 10,87	FEB 9,87	29.0		22.5		******		4.51		******		0.0508		1.25		1.20	
FEB 13,87	FEB 12,87	64.0		29.7		******		4.17		******		0.0850		0.80		1.16	
FEB 23,87	FEB 22,87	61.0	>	100.0		******	LG	3.07		******	UG	0.4000		4.70		2.51	
MAR 1,87	FEB 28,87	448.0		21.7		4.30		4.39		******		0.0642		1.25		0.40	
MAR 2,87	MAR 1,87	1102.0		20.6		4.33		4.43		******		0.0599		1.15		0.39	
MAR 3,87	MAR 2,87	46.0		12.9		******		4.70		******		0.0383		1.15		0.18	
MAR 26,87	MAR 25,87	389.0		38.0		4.09		4.22		******		0.0947		2.90		0.79	
MAR 30,87	MAR 29,87	587.0	D	64.5	D	3.89		4.02		******		0.1540	D	5.55		1.35	
MAR 31,87	MAR 30,87	1431.0		14.5		4.43		4.58		******		0.0515		1.20		0.16	
APR 1,87	MAR 31,87	480.0		8.3		4.68		4.82		******		0.0351		0.55		0.12	
APR 2,87	APR 1,87	67.0		27.0		******		4.31		******		0.0794		0.55		0.82	
APR 3,87	APR 2,87	38.0		44.5		******		4.15		******		0.1170		2.45		1.06	
APR 5,87	APR 4,87	920.0		7.4		4.75		4.94		******		0.0289		0.45	LG	0.08	
APR 15,87	APR 14,87	68.0		57.0		******		3.93		******		0.1610		7.45		1.18	
APR 24,87	APR 23,87	36.0	>	100.0		******	D	4.44		******	D	0.1050	UG	23.00	UG	4.95	
APR 28,87	APR 27,87	450.0		18.0	UG	5.53	UG	6.77		******		0.0199		2.55		1.09	
APR 29,87	APR 28,87	297.0		8.0		4.60		4.78		******		0.0372		1.10	LG	0.05	
APR 30,87	APR 29,87	295.0		11.0	UG	5.30		4.68		******	D	0.0424		1.60	LG	0.07	
MAY 11,87	MAY 10,87	808.0		48.5		4.09		4.59		******		0.0863		6.90		1.34	
MAY 12,87	MAY 11,87	331.0		39.5		4.08	D	4.33		******		0.0759		5.80		0.63	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JAN 3,87	JAN 2,87	<T	0.08	0.11	<T	0.005	<T	0.005	0.120	<T	0.005		0.0138		
JAN 7,87	JAN 6,87		0.36	0.44		0.055		0.035	0.155		1.670		0.1862		
JAN 8,87	JAN 7,87		######	######		######		######	######		######		######		
JAN 9,87	JAN 8,87		2.14	0.29		0.095		0.060	0.150		1.250	B	0.0002		
JAN 11,87	JAN 10,87		0.16	0.08	<T	0.005	<T	0.005	<T	0.015	D	0.060		0.0251	
JAN 15,87	JAN 14,87	!IS	######	0.73	!IS	######	!IS	######	!IS	######		2.600		0.2042	
JAN 18,87	JAN 17,87	<T	0.06	0.14	<T	0.005	<W	0.005	0.030		0.295		0.0288		
JAN 21,87	JAN 20,87		######	######		######		######	######		######		######		
JAN 23,87	JAN 22,87	D	0.44	D	0.32	<T	0.025	<T	0.005	D	0.100		0.065		0.0490
JAN 24,87	JAN 23,87		0.12	0.18	<T	0.020		0.025	0.090	<T	0.010		0.0032		
JAN 25,87	JAN 24,87		0.16	0.15	<T	0.020	<T	0.010	0.075	<T	0.015		0.0034		
JAN 29,87	JAN 28,87	D	0.40	D	0.40	<T	0.020		0.050	D	0.235		0.220		0.0355
JAN 30,87	JAN 29,87		0.10	0.16	<T	0.005	<W	0.005	<T	0.020	<T	0.020		0.0501	
JAN 31,87	JAN 30,87		0.18	0.22	<T	0.015	<T	0.015	0.085		0.260		0.0589		
FEB 2,87	FEB 1,87		0.26	0.23	<T	0.020	<T	0.015	0.095		0.260		0.0575		
FEB 3,87	FEB 2,87		0.18	0.15	<T	0.015		0.025	0.085		0.545		0.0295		
FEB 5,87	FEB 4,87		0.78	D	0.52	D	0.090	D	0.090	0.230	D	1.600		0.0513	
FEB 7,87	FEB 6,87		0.26	0.24		0.035	<T	0.010	0.075		0.700		0.0275		
FEB 8,87	FEB 7,87		0.40	0.30		0.040	<T	0.015	0.080		1.100		0.0347		
FEB 9,87	FEB 8,87		0.40	0.22	<T	0.025		0.030	0.090		0.035		0.0083		
FEB 10,87	FEB 9,87		0.80	0.24		0.140		0.025	0.155		0.425		0.0309		
FEB 13,87	FEB 12,87		0.44	0.33	<T	0.025	<T	0.005	0.155		0.145		0.0676		
FEB 23,87	FEB 22,87		0.70	UG	1.29		0.085		0.030	0.165		0.225	LG	0.3388	
MAR 1,87	FEB 28,87	<T	0.02	<T	0.03	<T	0.005	<T	0.005	<T	0.005		0.085		0.0407
MAR 2,87	MAR 1,87	<T	0.02	<T	0.04	<T	0.005	<W	0.005	<T	0.015		0.090		0.0372
MAR 3,87	MAR 2,87		0.22	0.09	<T	0.025	<T	0.015	0.060	LG	0.010		0.0200		
MAR 26,87	MAR 25,87		0.22	<W	0.01		0.030	<T	0.015	0.045		0.505		0.0603	
MAR 30,87	MAR 29,87	D	0.62	D	0.45	D	0.055		0.045	0.045		1.000		0.0955	
MAR 31,87	MAR 30,87	<T	0.02	<W	0.01	<W	0.005	<T	0.005	<W	0.005		0.035		0.0263
APR 1,87	MAR 31,87	<T	0.02	<W	0.01	<W	0.005	<T	0.005	<T	0.010	<T	0.020		0.0151
APR 2,87	APR 1,87		0.14	<T	0.05	<T	0.010	<T	0.015	0.030		0.035		0.0490	
APR 3,87	APR 2,87	D	0.64	0.55	D	0.080		0.030	0.120		0.240		0.0708		
APR 5,87	APR 4,87	<T	0.02	<T	0.02	<W	0.005	<T	0.005	<T	0.025		0.030		0.0115
APR 15,87	APR 14,87		1.40	0.27		0.155		0.060	0.075		0.655		0.1175		
APR 24,87	APR 23,87	!IS	######	!IS	1.30	!IS	######	!IS	######	!IS	######		3.400	D	0.0363
APR 28,87	APR 27,87		2.04	0.50		0.445		0.070	0.055		0.490	UG	0.0002		
APR 29,87	APR 28,87		0.13	<W	0.01	<T	0.005	<T	0.010	<W	0.005	<T	0.025		0.0166
APR 30,87	APR 29,87		0.22	<W	0.01		0.025		0.030	<T	0.020		0.060		0.0209
MAY 11,87	MAY 10,87		1.30	0.27		0.220		0.080	0.045		1.630		0.0257		
MAY 12,87	MAY 11,87		0.88	0.20		0.105		0.040	0.095		0.980	D	0.0468		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 15,87	MAY 14,87	700	750	1600	430	1	20.1	1	42413	2	1	34		N
MAY 22,87	MAY 21,87	800	755	400	700	1	3.2	1	42414	2	1	101		T
MAY 24,87	MAY 23,87	800	945	830	1600	1	3.2	1	42415	2	1	100		
MAY 27,87	MAY 26,87	800	755	1300	6200	1	2.4	1	42416	2	1	112		C
JUN 1,87	MAY 31,87	755	755	1100	1400	1	1.1	1	42417	2	1	93		
JUN 2,87	JUN 1,87	755	755	1800	2300	1	3.1	1	42418	2	1	95		
JUN 6,87	JUN 5,87	800	930	930	1400	1	3.1	1	42419	2	1	70		
JUN 7,87	JUN 6,87	930	1030	2200	700	1	5.1	1	42420	2	1	72		
JUN 8,87	JUN 7,87	1030	755	1530	730	1	12.0	1	42421	2	1	94		J
JUN 9,87	JUN 8,87	755	755	900	400	1	1.1	1	42422	2	1	127		NHM
JUN 10,87	JUN 9,87	755	755	900	1500	1	0.2	1	42423	2	1	93		
JUN 12,87	JUN 11,87	800	930	1530	930	1	11.0	1	42424	2	1	102		
JUN 13,87	JUN 12,87	930	800	1930	2000	1	0.4	1	42425	2	1	54		
JUN 14,87	JUN 13,87	800	800	200	300	1	5.0	1	42426	2	1	95		HN
JUN 19,87	JUN 18,87	800	755	400	500	1	0.2	1	42427	2	1	155		N
JUN 23,87	JUN 22,87	800	755	805	2100	1	3.2	1	42428	2	1	105		
JUN 25,87	JUN 24,87	800	755	200	225	1	3.1	1	42429	2	1	112		
JUN 27,87	JUN 26,87	755	930	810	1300	1	2.3	1	42430	2	1	124		N
JUN 28,87	JUN 27,87	930	1100	1600	1800	1	3.2	1	42431	2	1	110		
JUN 29,87	JUN 28,87	1100	755	545	745	1	6.2	1	42432	2	1	90		
JUN 30,87	JUN 29,87	755	755	515	1400	1	24.4	1	42433	2	1	26		N
JUL 3,87	JUL 2,87	755	755	1500	400	1	0.4	1	42434	2	1	167		N
JUL 4,87	JUL 3,87	755	945	1800	2300	1	14.2	1	42435	2	1	105		
JUL 7,87	JUL 6,87	750	750	1400	2300	1	12.2	1	42436	2	1	110		
JUL 8,87	JUL 7,87	750	755	1800	2300	1	5.0	1	42437	2	1	101		
JUL 14,87	JUL 13,87	800	755	1145	755	1	31.0	1	42438	2	1	112		
JUL 15,87	JUL 14,87	755	755	755	1400	1	4.1	1	42441	2	1	88		CH
JUL 20,87	JUL 19,87	800	755	2230	730	1	12.4	1	42442	2	1	87		
JUL 25,87	JUL 24,87	930	930	1515	1600	1	3.4	1	42443	2	1	55		
JUL 30,87	JUL 29,87	755	755	2230	2350	1	2.3	1	42444	2	1	113		H
AUG 3,87	AUG 2,87	850	850	900	2200	1	4.2	1	42445	2	1	129		N
AUG 8,87	AUG 7,87	850	850	1700	2200	1	5.0	1	42446	2	1	110		
AUG 10,87	AUG 9,87	755	755	845	2000	1	7.1	1	42447	2	1	99		
AUG 16,87	AUG 15,87	800	945	####	####	1	####	1	42448	2	1	####		HCH
AUG 18,87	AUG 17,87	750	750	####	####	1	####	1	42449	2	1	####		
AUG 22,87	AUG 21,87	800	750	200	700	1	6.1	1	42450	2	1	105		
AUG 27,87	AUG 26,87	800	755	500	600	1	0.4	1	42451	2	1	U 304	QP	
AUG 29,87	AUG 28,87	800	930	500	600	1	1.3	1	42452	2	1	111		HN
AUG 31,87	AUG 30,87	800	755	200	700	1	7.4	1	42453	2	1	105		
SEP 1,87	AUG 31,87	755	755	200	600	1	2.3	1	42454	2	1	107		C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
API08 - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
MAY 15,87	MAY 14,87	443.0		47.0		4.21		4.12		******		0.0971		6.30		0.96	
MAY 22,87	MAY 21,87	209.0		82.0		3.81		3.69		******		0.2030		8.90		1.20	
MAY 24,87	MAY 23,87	206.0		52.0		4.09		4.07		******		0.1100		5.30		1.50	
MAY 27,87	MAY 26,87	173.0	>	100.0	LG	3.45	LG	3.38		******	UG	0.4420	UG	18.40		2.20	
JUN 1,87	MAY 31,87	66.0		83.9		******		3.91		******		0.1630		14.15		1.86	
JUN 2,87	JUN 1,87	190.0		32.3		4.09		4.20		******		0.0826		3.45		0.91	
JUN 6,87	JUN 5,87	141.0		26.2		4.38		4.56		******		0.0524		3.40		0.71	
JUN 7,87	JUN 6,87	238.0		26.2	D	4.38	D	4.55		******		0.0525		3.40		0.71	
JUN 8,87	JUN 7,87	725.0		12.3		4.78	UG	6.34		******		0.0208		1.60		0.42	
JUN 9,87	JUN 8,87	90.0		23.0		******		4.40		******		0.0575		3.00		0.26	
JUN 10,87	JUN 9,87	12.0		8.0		******		4.95		******		0.0291		0.80		0.60	
JUN 12,87	JUN 11,87	720.0		54.5		3.87		3.86		******		0.1400		6.60		0.78	
JUN 13,87	JUN 12,87	14.0		13.4		******		5.06		******		0.0310		1.35		0.46	
JUN 14,87	JUN 13,87	306.0		14.9		4.34		4.57		******		0.0459		1.35		0.24	
JUN 19,87	JUN 18,87	20.0	>	100.0		******		3.81		******		0.1960	<=>	14.00	<=>	2.50	
JUN 23,87	JUN 22,87	216.0		31.6		4.09		4.18		******		0.0829		2.75		0.65	
JUN 25,87	JUN 24,87	223.0		25.1		4.24		4.42		******		0.0629		2.30		0.60	
JUN 27,87	JUN 26,87	183.0		46.5		3.99		4.06		******		0.1180	D	6.35		0.50	
JUN 28,87	JUN 27,87	227.0	D	96.6	D	3.67	D	3.68		******	D	0.2510	D	9.75		1.90	
JUN 29,87	JUN 28,87	358.0		25.1		4.26		4.43		******		0.0612		2.25		0.60	
JUN 30,87	JUN 29,87	410.0		44.9		4.04		4.11		******		0.1060		5.45		0.80	
JUL 3,87	JUL 2,87	43.0		27.1		******		4.30		******		0.0747		1.80		0.60	
JUL 4,87	JUL 3,87	961.0		19.9		4.38		4.56		******		0.0493		2.30		0.25	
JUL 7,87	JUL 6,87	868.0		98.6		3.64		3.65		******		0.2610		10.75		1.15	
JUL 8,87	JUL 7,87	325.0		13.8		4.45		4.63		******		0.0420		0.50		0.25	
JUL 14,87	JUL 13,87	2227.0		11.8		4.64		4.87		******		0.0334		1.40		0.25	
JUL 15,87	JUL 14,87	233.0		4.5		4.79		5.23		******		0.0231	LG	0.30	<T	0.05	
JUL 20,87	JUL 19,87	698.0		16.3		4.40		4.59		******		0.0484		1.55		0.35	
JUL 25,87	JUL 24,87	122.0		45.1	D	4.44		4.36		******	D	0.0722	D	9.10		0.95	
JUL 30,87	JUL 29,87	168.0		28.2		4.93		5.16		******		0.0271		4.35		1.35	
AUG 3,87	AUG 2,87	349.0		53.6		3.95		3.88		******		0.1480		5.55		0.75	
AUG 8,87	AUG 7,87	355.0		25.4		4.29		4.33		******		0.0638		2.85		0.50	
AUG 10,87	AUG 9,87	451.0	D	25.4	D	4.31		4.32		******	D	0.0645	D	2.85		0.50	
AUG 16,87	AUG 15,87	56.0	>	100.0		******	LG	3.22		******	UG	0.7650	UG	30.20		0.40	
AUG 18,87	AUG 17,87	277.0		16.0		******		4.69		******		0.0449		2.35		0.33	
AUG 22,87	AUG 21,87	414.0		23.0		4.25		4.37		******		0.0711		2.25		0.43	
AUG 27,87	AUG 26,87	78.0		11.0		******		5.55		******		0.0253		2.00		0.34	
AUG 29,87	AUG 28,87	93.0		14.0		******		4.75		******		0.0418		2.15		0.59	
AUG 31,87	AUG 30,87	500.0		34.5		4.21		4.19		******		0.1000		3.90		0.50	
SEP 1,87	AUG 31,87	150.0		5.0	UG	5.21		5.51		******		0.0206		0.45		0.08	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
MAY 15,87	MAY 14,87	1.08		0.23		0.185		0.045		0.030		0.970		0.0759
MAY 22,87	MAY 21,87	0.66	D	0.24	D	0.100		0.045		0.120		0.765		0.2042
MAY 24,87	MAY 23,87	0.70	D	0.20	D	0.110		0.070		0.135		1.330		0.0851
MAY 27,87	MAY 26,87	0.62		0.47	D	0.065		0.055		0.130		1.270	LG	0.4169
JUN 1,87	MAY 31,87	3.60	B	0.40	D	0.330	B	0.390	B	0.450		1.300		0.1230
JUN 2,87	JUN 1,87	0.64		0.19		0.070		0.075		0.050		0.610		0.0631
JUN 6,87	JUN 5,87	0.84	D	0.16		0.085		0.075		0.075		0.675		0.0275
JUN 7,87	JUN 6,87	0.88		0.15		0.085		0.075		0.070		0.675	D	0.0282
JUN 8,87	JUN 7,87	0.36		0.09		0.060		0.050	<T	0.015		0.740	UG	0.0005
JUN 9,87	JUN 8,87	0.74		0.17		0.060		0.070	UG	0.490		0.195		0.0398
JUN 10,87	JUN 9,87	0.16		0.09	<T	0.005	<T	0.010	!IR	******	<W	0.005		0.0112
JUN 12,87	JUN 11,87	0.82		0.23		0.105		0.050		0.055		0.485		0.1380
JUN 13,87	JUN 12,87	0.48		0.16		0.080		0.070		0.135		0.245		0.0087
JUN 14,87	JUN 13,87	0.20		0.06		0.040	<T	0.025	<T	0.010		0.220		0.0269
JUN 19,87	JUN 18,87	6.20	B	0.50	D	0.585		0.180		0.130		1.450		0.1549
JUN 23,87	JUN 22,87	0.44		0.15		0.030	<T	0.005	<T	0.015		0.240		0.0661
JUN 25,87	JUN 24,87	0.32	<T	0.05		0.065		0.030	<T	0.010		0.455		0.0380
JUN 27,87	JUN 26,87	0.24	<W	0.01	<T	0.015		0.025	<T	0.020		0.900		0.0871
JUN 28,87	JUN 27,87	1.22	D	0.35	D	0.120		0.125		0.030	D	0.630	D	0.2089
JUN 29,87	JUN 28,87	0.32	<T	0.05		0.065	<T	0.020	<T	0.010		0.470		0.0372
JUN 30,87	JUN 29,87	0.88		0.10		0.145		0.030		0.025		0.535		0.0776
JUL 3,87	JUL 2,87	!IS ******	<W	0.01	!IS	******	!IS	******	!IS	******		0.160		0.0501
JUL 4,87	JUL 3,87	0.24	<T	0.05		0.035	<T	0.015	<T	0.010		0.465		0.0275
JUL 7,87	JUL 6,87	0.44		0.20		0.040		0.025		0.030		0.650		0.2239
JUL 8,87	JUL 7,87	<T 0.04	<T	0.05	<W	0.005	<T	0.010	<T	0.015		0.110		0.0234
JUL 14,87	JUL 13,87	0.22		0.10		0.030	<T	0.015		0.040		0.230		0.0135
JUL 15,87	JUL 14,87	<T 0.04	<T	0.05	<T	0.005	<W	0.005	<W	0.005	<T	0.010		0.0059
JUL 20,87	JUL 19,87	0.34		0.10		0.040	<T	0.010	<T	0.025		0.155		0.0257
JUL 25,87	JUL 24,87	2.40	D	0.25	D	0.370		0.165		0.085	D	0.900		0.0437
JUL 30,87	JUL 29,87	2.90		0.30		0.520		0.075		0.035		0.210		0.0069
AUG 3,87	AUG 2,87	0.40		0.15		0.040		0.040	<T	0.020	I	0.640		0.1318
AUG 8,87	AUG 7,87	0.46	D	0.10	D	0.045	<T	0.020	<T	0.010		0.320		0.0468
AUG 10,87	AUG 9,87	0.50	D	0.10	D	0.045	<T	0.025	<T	0.010	D	0.320		0.0479
AUG 16,87	AUG 15,87	2.08	UG	1.90		0.350		0.110		0.295		2.150	LG	0.6026
AUG 18,87	AUG 17,87	0.34		0.07		0.045		0.030		0.040		0.415		0.0204
AUG 22,87	AUG 21,87	0.22	<W	0.01	D	0.025		0.035		0.025		0.260		0.0427
AUG 27,87	AUG 26,87	0.92		0.13		0.150		0.115		0.085	<T	0.020		0.0028
AUG 29,87	AUG 28,87	1.50		0.14		0.110		0.035		0.050		0.060		0.0178
AUG 31,87	AUG 30,87	0.50		0.10		0.045		0.050	<T	0.005		0.475		0.0646
SEP 1,87	AUG 31,87	0.22	<T	0.02	<T	0.015	<T	0.015	<T	0.010	<W	0.005		0.0031

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 9,87	SEP 8,87	755	755	600	930	1	4.3	1	42455	2	1	103		
SEP 10,87	SEP 9,87	755	755	930	1000	1	0.3	1	42456	2	1	176		N
SEP 12,87	SEP 11,87	755	755	2300	200	1	6.1	1	42457	2	1	85		C
SEP 14,87	SEP 13,87	755	755	1845	1950	1	1.3	1	42458	2	1	117		
SEP 18,87	SEP 17,87	755	755	200	700	1	1.1	1	42459	2	1	62		
SEP 20,87	SEP 19,87	800	930	1000	1900	1	8.3	1	42460	2	1	81		
SEP 21,87	SEP 20,87	930	755	1700	700	1	6.1	1	42463	2	1	112		
SEP 22,87	SEP 21,87	755	750	1000	1400	1	2.3	1	42464	2	1	112		
SEP 28,87	SEP 27,87	755	755	1800	2300	1	4.0	1	42465	2	1	91	Q	
SEP 30,87	SEP 29,87	800	930	1500	810	1	13.1	1	42466	2	1	102	A	H
OCT 1,87	SEP 30,87	930	755	1830	2330	1	4.1	1	42469	2	1	126		N
OCT 2,87	OCT 1,87	755	750	1800	700	1	4.4	1	42470	2	1	129	C	N
OCT 3,87	OCT 2,87	750	1000	1730	600	1	1.2	1	42471	2	1	115		
OCT 6,87	OCT 5,87	800	755	500	600	1	0.2	1	42472	2	1	15	E	N
OCT 8,87	OCT 7,87	750	750	1300	730	1	12.1	1	42473	2	1	97		
OCT 10,87	OCT 9,87	755	755	830	1100	1	2.2	1	42476	2	1	102		
OCT 19,87	OCT 18,87	755	755	800	100	1	5.3	1	42477	2	1	100		
OCT 20,87	OCT 19,87	755	750	500	700	1	0.3	1	42478	2	1	135		N
OCT 21,87	OCT 20,87	750	755	1300	700	1	2.0	1	42479	2	1	106		
OCT 23,87	OCT 22,87	755	750	2000	600	1	12.3	1	42480	2	1	91		
OCT 25,87	OCT 24,87	750	900	1300	700	1	18.0	1	42481	2	1	81		
OCT 28,87	OCT 27,87	750	755	1000	1800	1	8.3	1	42482	2	1	84		
OCT 29,87	OCT 28,87	755	750	600	730	1	0.1	2	42483	2	1	249		N
OCT 30,87	OCT 29,87	750	755	900	745	1	0.3	2	42484	2	1	421		NH
OCT 31,87	OCT 30,87	755	930	800	1700	1	0.2	2	42485	2	1	546		N
NOV 3,87	NOV 2,87	755	755	300	755	1	4.0	2	42486	2	1	136		N
NOV 4,87	NOV 3,87	755	750	755	1700	1	6.0	2	42487	2	1	117		
NOV 5,87	NOV 4,87	750	750	1400	600	1	7.0	2	42488	2	1	87		N
NOV 6,87	NOV 5,87	750	755	1300	745	3	1.8	2	42489	2	1	102		NH
NOV 8,87	NOV 7,87	755	850	1600	500	2	16.0	2	42490	2	1	40		NH
NOV 9,87	NOV 8,87	858	755	1000	2300	1	6.3	2	42491	2	1	232		NHH
NOV 12,87	NOV 11,87	755	755	400	700	3	0.4	2	42494	2	1	245		N
NOV 18,87	NOV 17,87	755	750	1400	600	1	5.3	2	42495	2	1	91		
NOV 24,87	NOV 23,87	755	755	1500	700	1	2.2	2	42496	2	1	174		N
NOV 26,87	NOV 25,87	755	755	815	1100	2	38.2	2	42497	2	1	25		NC
NOV 29,87	NOV 28,87	755	1030	400	1000	1	13.2	2	42498	2	1	98		
NOV 30,87	NOV 29,87	1030	755	1300	600	1	2.3	2	42499	2	1	111		
DEC 8,87	DEC 7,87	800	755	500	755	1	0.4	2	76201	2	1	U 448	P	
DEC 9,87	DEC 8,87	755	755	755	755	1	5.3	2	76202	2	1	****	GE	
DEC 10,87	DEC 9,87	755	750	755	600	1	2.2	2	76203	2	1	153		NH

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
SEP 9,87	SEP 8,87	284.0		22.0		4.35		4.36		######		0.0635		2.00		0.38
SEP 10,87	SEP 9,87	34.0	!IS	######		######		4.07		######		0.1020	!IS	######	!IS	######
SEP 12,87	SEP 11,87	333.0	D	3.5		3.74		3.76		######		0.2040		8.00		0.76
SEP 14,87	SEP 13,87	98.0	D	70.0	D	3.86		3.89		######	D	0.1590	D	7.15		1.04
SEP 18,87	SEP 17,87	44.0		47.5		######		4.17		######		0.1200		7.15		0.75
SEP 20,87	SEP 19,87	433.0		39.6		4.04		4.09		######		0.1100		3.85		0.51
SEP 21,87	SEP 20,87	439.0		31.2		4.13		4.17		######		0.0920		2.50		0.35
SEP 22,87	SEP 21,87	166.0		29.7		4.17		4.25		######		0.0801		3.10		0.46
SEP 28,87	SEP 27,87	235.0		25.0		4.22		4.34		######		0.0690		2.55		0.49
SEP 30,87	SEP 29,87	862.0		35.6		4.11		4.24		######		0.0858		4.90		0.52
OCT 1,87	SEP 30,87	333.0		12.4		4.52		4.61		######		0.0431		1.00	<T	0.05
OCT 2,87	OCT 1,87	364.0		44.0	UQ	6.85	UQ	7.03		######		0.0226		7.65		1.69
OCT 3,87	OCT 2,87	89.0		7.4		######	UQ	6.74		######		0.0164		1.20		0.12
OCT 6,87	OCT 5,87	2.0		######		######		######		######		######		######		######
OCT 8,87	OCT 7,87	757.0		10.0		4.58		4.67		######		0.0386		0.85		0.27
OCT 10,87	OCT 9,87	144.0		48.5		4.23		4.38		######		0.0793		6.30		1.93
OCT 19,87	OCT 18,87	342.0		32.5		4.18		4.23		######	D	0.0791		3.00		0.61
OCT 20,87	OCT 19,87	26.0		52.5		######		4.06		######		0.1140		5.10		1.44
OCT 21,87	OCT 20,87	137.0		83.0		3.69		3.75		######		0.2180	D	8.65		1.87
OCT 23,87	OCT 22,87	722.0		25.0		4.21		4.31		######		0.0769		1.80		0.79
OCT 25,87	OCT 24,87	937.0		48.0		3.92		4.03		######	D	0.1370		3.70		1.21
OCT 28,87	OCT 27,87	450.0		35.0		4.05		4.16		######		0.1050		4.00		0.47
OCT 29,87	OCT 28,87	16.0		5.0		######		5.20		######		0.0240		0.75		0.31
OCT 30,87	OCT 29,87	81.0		28.0		######	D	4.87		######		0.0384		3.00		1.83
OCT 31,87	OCT 30,87	70.0		65.0		######		4.02		######		0.1600		4.35		2.67
NOV 3,87	NOV 2,87	350.0		20.0	D	4.28	D	4.49		######	D	0.0614	D	2.40		0.48
NOV 4,87	NOV 3,87	453.0		20.0		4.28		4.47		######		0.0618		2.40		0.46
NOV 5,87	NOV 4,87	394.0		20.0		4.29		4.47		######		0.0622		2.45		0.48
NOV 6,87	NOV 5,87	118.0	LQ	2.5	UQ	5.15		5.50		######		0.0188		0.85	<T	0.01
NOV 8,87	NOV 7,87	412.0		19.0		4.34		4.47		######		0.0625		1.50		0.58
NOV 9,87	NOV 8,87	938.0		8.0		4.66		4.87		######		0.0346		1.00		0.22
NOV 12,87	NOV 11,87	63.0		24.0		######		4.52		######		0.0592		2.05		1.03
NOV 18,87	NOV 17,87	312.0		27.0		4.20		4.32		######		0.0778		2.25		0.56
NOV 24,87	NOV 23,87	246.0		32.0		4.71	D	4.75		######	D	0.0496		4.55		1.50
NOV 26,87	NOV 25,87	619.0	LQ	3.0	UQ	5.08		5.05		######		0.0216	<T	0.20		0.13
NOV 29,87	NOV 28,87	836.0		8.0		4.76		4.68		######		0.0327		0.70		0.13
NOV 30,87	NOV 29,87	165.0	D	43.0		3.97		4.01		######	D	0.1310	D	2.20		1.10
DEC 8,87	DEC 7,87	115.0		16.5		4.56		4.54		######		0.0438		2.00		0.51
DEC 9,87	DEC 8,87	######		######		######		######		######		######		######		######
DEC 10,87	DEC 9,87	216.0		27.5		4.21		4.12		######	D	0.0835		2.45		0.32

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
SEP 9,87	SEP 8,87		0.34		0.07		0.030		0.025	<T	0.010		0.110		0.0437
SEP 10,87	SEP 9,87		0.20	!IS	******	<T	0.015		0.035		0.035		0.485		0.0851
SEP 12,87	SEP 11,87		0.20		0.21	<T	0.020		0.030	<T	0.005		0.460		0.1738
SEP 14,87	SEP 13,87		0.40		0.21		0.045		0.075	<T	0.020	D	0.900		0.1288
SEP 18,87	SEP 17,87		2.00		0.23		0.180		0.155		0.130		0.480		0.0676
SEP 20,87	SEP 19,87		0.42	<T	0.03		0.025	<T	0.020	<T	0.015		0.190		0.0813
SEP 21,87	SEP 20,87	<T	0.08	<T	0.02	<W	0.005	<T	0.020	<T	0.015		0.175		0.0676
SEP 22,87	SEP 21,87		0.30	<T	0.04		0.035		0.075	<T	0.015		0.495		0.0562
SEP 28,87	SEP 27,87		0.48	<T	0.04		0.050		0.030	<T	0.015		0.290		0.0457
SEP 30,87	SEP 29,87		1.14		0.15		0.135		0.030		0.025		0.475		0.0575
OCT 1,87	SEP 30,87	<W	0.02	<T	0.03	<T	0.010	<T	0.005	<T	0.005	<T	0.025		0.0245
OCT 2,87	OCT 1,87	UG	3.10		0.34		0.510	UG	0.315		0.190		1.550	UG	0.0001
OCT 3,87	OCT 2,87		0.64		0.11		0.065		0.030		0.025		0.305	UG	0.0002
OCT 6,87	OCT 5,87		******		******		******		******		******		******		******
OCT 8,87	OCT 7,87		0.16	<W	0.01	<T	0.020	<W	0.005	<T	0.010		0.045		0.0214
OCT 10,87	OCT 9,87		2.64		0.54		0.270		0.200		0.135		0.950		0.0417
OCT 19,87	OCT 18,87		0.40		0.28		0.035	<T	0.020	<T	0.020		0.450		0.0589
OCT 20,87	OCT 19,87		0.76		0.28		0.085		0.075		0.075	!IS	******		0.0871
OCT 21,87	OCT 20,87		0.50	!LA	******		0.060		0.040		0.025		0.555		0.1778
OCT 23,87	OCT 22,87		0.18		0.19		0.030	<T	0.010	<T	0.005		0.295		0.0490
OCT 25,87	OCT 24,87		0.38		0.16		0.040		0.060	<T	0.025		0.545		0.0933
OCT 28,87	OCT 27,87		0.14		0.18	<T	0.010	<T	0.020	<T	0.015		0.370		0.0692
OCT 29,87	OCT 28,87	!IS	******		0.13	!IS	******	!IS	******	!IS	******	<T	0.015		0.0063
OCT 30,87	OCT 29,87		2.06		0.53		0.200		0.090		0.050		0.760	D	0.0135
OCT 31,87	OCT 30,87		1.50		0.44		0.185		0.115		0.070		1.200		0.0955
NOV 3,87	NOV 2,87		0.16		0.13	<T	0.020	<T	0.010		0.030		0.410	D	0.0324
NOV 4,87	NOV 3,87		0.12		0.15	<T	0.015	<T	0.015		0.030		0.405		0.0339
NOV 5,87	NOV 4,87	<T	0.10		0.23	<T	0.015	<T	0.015		0.030		0.410		0.0339
NOV 6,87	NOV 5,87	<T	0.08	<T	0.01	<T	0.015	<T	0.020	<T	0.015	<W	0.005		0.0032
NOV 8,87	NOV 7,87	<T	0.06	<T	0.01	<W	0.005	<T	0.015	<T	0.005		0.280		0.0339
NOV 9,87	NOV 8,87	<T	0.06	<T	0.01	<T	0.010	<T	0.005	<T	0.015		0.125		0.0135
NOV 12,87	NOV 11,87	D	0.64		0.11		0.070		0.035		0.050		0.595		0.0302
NOV 18,87	NOV 17,87		0.26		0.31		0.035	<T	0.015		0.145		0.210		0.0479
NOV 24,87	NOV 23,87		1.88		0.54		0.190		0.090		0.265		1.100	D	0.0178
NOV 26,87	NOV 25,87	<T	0.06	<T	0.02	<W	0.005	<W	0.005	<T	0.005	<T	0.005		0.0089
NOV 29,87	NOV 28,87	<T	0.04	<T	0.04	<W	0.005	<W	0.005	<T	0.015		0.030		0.0209
NOV 30,87	NOV 29,87		0.14		0.06	<T	0.005	<W	0.005	<T	0.020		0.035		0.0977
DEC 8,87	DEC 7,87		0.80		0.11		0.055	<T	0.015		0.070		0.125		0.0288
DEC 9,87	DEC 8,87		******		******		******		******		******		******		******
DEC 10,87	DEC 9,87	D	0.18		0.22	<T	0.025	<T	0.010	D	0.080		0.095		0.0759

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 11,87	DEC 10,87	750	755	900	1800	1	0.3	2	76204	2	1	468		N
DEC 12,87	DEC 11,87	755	930	1400	900	3	3.1	2	76205	2	1	88		
DEC 13,87	DEC 12,87	930	1000	1730	600	3	6.3	2	76206	2	1	69		
DEC 16,87	DEC 15,87	800	755	915	200	2	23.5	2	76207	2	1	38		N
DEC 20,87	DEC 19,87	755	950	100	900	3	8.0	1	76208	2	1	86		
DEC 21,87	DEC 20,87	950	755	1100	1700	3	20.0	2	76209	2	1	65		
DEC 23,87	DEC 22,87	755	755	2000	700	2	1.3	2	76210	2	1	116		N
DEC 25,87	DEC 24,87	1000	1000	****	****	1	****	2	76211	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L	NITRATE AS N MG/L
DEC 11,87	DEC 10,87	90.0	D	25.0		******	D	4.36		******	D	0.0720		1.50	0.81
DEC 12,87	DEC 11,87	176.0	D	25.5	D	4.32	D	4.37		******	D	0.0698		1.55	0.82
DEC 13,87	DEC 12,87	282.0		8.0		4.84		4.99		******		0.0300		0.80	0.36
DEC 16,87	DEC 15,87	581.0		15.5		4.46		4.53		******		0.0505		0.75	0.52
DEC 20,87	DEC 19,87	446.0		33.0		4.13	D	4.20		******	D	0.0919		2.10	0.68
DEC 21,87	DEC 20,87	834.0		16.5		4.44		4.52		******		0.0508		1.05	0.34
DEC 23,87	DEC 22,87	97.0		17.0		******	B	6.37		******		0.0208		1.65	1.15
DEC 25,87	DEC 24,87	432.0		20.0		******		4.42		******		0.0658		1.45	0.39

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
DEC 11,87	DEC 10,87	D	0.26	<T	0.01	<T	0.020	<T	0.010		0.025	D	0.340	D	0.0437
DEC 12,87	DEC 11,87		0.28		0.10	<T	0.020	<T	0.010	<T	0.025		0.350	D	0.0427
DEC 13,87	DEC 12,87		0.24	<T	0.01	<T	0.010	<T	0.005	<T	0.010		0.165		0.0102
DEC 16,87	DEC 15,87		0.18	<T	0.01	<T	0.010	<T	0.005	<T	0.010		0.080		0.0295
DEC 20,87	DEC 19,87	D	0.20		0.21	D	0.025	<T	0.020	D	0.060		0.125	D	0.0631
DEC 21,87	DEC 20,87	<T	0.08		0.11	<T	0.010	<T	0.005	<T	0.025		0.065		0.0302
DEC 23,87	DEC 22,87	D	1.88		0.26	D	0.145	D	0.085		0.085		0.165	B	0.0004
DEC 25,87	DEC 24,87		0.22		0.07	<T	0.010	<W	0.005	<T	0.010		0.165		0.0380

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 606 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 7,87	JAN 6,87	730	830	2400	800	2	1.4	2	45469	2	1		95		
JAN 9,87	JAN 8,87	800	800	1000	500	2	2.6	2	45472	2	1		93		
JAN 12,87	JAN 9,87	800	800	530	1200	3	3.8	2	45475	2	1		61		Y3
JAN 13,87	JAN 12,87	800	800	800	1200	3	0.3	2	45478	2	1		72		
JAN 15,87	JAN 14,87	800	830	****	****	3	0.2	2	45481	2	1		15	E	N
JAN 16,87	JAN 15,87	830	1000	1100	2100	3	0.2	2	45484	2	1		93		
JAN 19,87	JAN 17,87	800	830	300	1900	2	6.6	2	45487	2	1		85		Y2
JAN 21,87	JAN 20,87	800	800	1900	800	2	2.5	2	45490	2	1		76		
JAN 22,87	JAN 21,87	800	800	800	1800	2	1.9	2	45493	2	1		71		
JAN 23,87	JAN 22,87	800	800	1800	800	2	3.6	2	45496	2	1		77		
JAN 24,87	JAN 23,87	800	1100	800	1100	2	0.2	2	45499	2	1		31	E	N
JAN 26,87	JAN 26,87	800	1250	400	1250	2	0.2	2	45502	2	1		116		Y2
JAN 29,87	JAN 28,87	1250	800	1250	400	2	0.5	2	45505	2	1		84		
FEB 2,87	JAN 30,87	800	800	800	800	3	13.0	2	45508	2	1		67		Y3
FEB 3,87	FEB 2,87	800	830	2200	830	3	1.5	2	45511	2	1		84		
FEB 4,87	FEB 3,87	830	900	830	1530	2	0.7	2	45514	2	1		57		
FEB 5,87	FEB 4,87	900	800	900	1500	2	1.8	2	45517	2	1	U	115	F	
FEB 6,87	FEB 5,87	800	800	1800	2200	2	1.6	2	45520	2	1		86		
FEB 7,87	FEB 6,87	800	900	1400	100	2	2.4	2	45523	2	1		66		
FEB 9,87	FEB 7,87	900	800	2400	1500	2	19.4	2	45526	2	1		53		Y2
FEB 10,87	FEB 9,87	800	800	2200	800	2	0.4	2	45529	2	1		74		
FEB 13,87	FEB 12,87	830	800	1800	2200	2	1.5	2	45532	2	1		72		
FEB 23,87	FEB 22,87	800	830	100	500	2	0.2	2	45537	2	1		93		
MAR 2,87	FEB 26,87	800	800	30	800	3	22.6	2	45540	2	1		79		Y2
MAR 3,87	MAR 2,87	800	730	800	1200	2	1.4	2	45545	2	1		46		
MAR 4,87	MAR 3,87	730	745	1200	2400	2	0.2	2	45548	2	1		46	E	N
MAR 26,87	MAR 25,87	930	830	230	830	1	3.7	2	45552	2	1		134		N
MAR 27,87	MAR 26,87	830	830	830	1200	1	3.2	1	45555	2	1		75		
MAR 30,87	MAR 29,87	800	745	2300	745	1	11.4	1	45558	2	1		107		
APR 1,87	MAR 30,87	745	1000	1700	2200	3	37.0	4	45561	2	1		57		Y2
APR 2,87	APR 1,87	1000	800	2000	800	2	6.0	2	45566	2	1		40		N
APR 3,87	APR 2,87	800	800	1600	800	2	2.6	2	45569	2	1		43		N
APR 5,87	APR 4,87	830	815	2300	815	1	4.3	2	45572	2	1		123	Q	NC
APR 6,87	APR 5,87	815	800	100	400	1	0.1	2	45575	2	1		187		N
APR 13,87	APR 12,87	815	750	1630	1900	1	4.8	1	45579	2	1		101		
APR 22,87	APR 21,87	755	900	1500	1700	1	0.4	1	45582	2	1		77		N
APR 24,87	APR 23,87	750	740	1900	2100	1	1.6	1	45585	2	1		83		C
APR 28,87	APR 27,87	745	750	1630	2030	1	7.8	1	45588	2	1		101	Q	
APR 29,87	APR 28,87	750	800	1230	2030	1	3.1	1	45591	2	1		105		J
APR 30,87	APR 29,87	800	800	1800	2200	1	4.3	1	45594	2	1		90	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JAN 7,87	JAN 6,87	86.0		78.9		******		3.75		******		0.1940		5.60		2.58
JAN 9,87	JAN 8,87	156.0		29.0		******		4.21		******		0.0746		3.30		0.36
JAN 12,87	JAN 9,87	149.0		23.6		4.26		4.29		******		0.0695		1.10		0.62
JAN 13,87	JAN 12,87	14.0		7.8		******		4.87		******		0.0284		0.75	LG	0.07
JAN 15,87	JAN 14,87	2.0		******		******		******		******		******		******		******
JAN 16,87	JAN 15,87	12.0		29.3		******		4.28		******		0.0724		2.60		0.59
JAN 19,87	JAN 17,87	361.0		14.7		4.49		4.49		******		0.0428	LG	0.20		0.42
JAN 21,87	JAN 20,87	123.0		23.3		4.34		4.31		******		0.0590		0.70		0.67
JAN 22,87	JAN 21,87	87.0		14.8		******		4.52		******		0.0416		0.80		0.34
JAN 23,87	JAN 22,87	178.0		39.2		4.06		4.02		******		0.1010		0.30		1.20
JAN 24,87	JAN 23,87	4.0		******		******		******		******		******		******		******
JAN 28,87	JAN 26,87	15.0		15.4		******	IIR	******		******	IIR	******		0.30		0.44
JAN 29,87	JAN 28,87	27.0		35.1		******		4.09		******		0.0890		1.35		0.88
FEB 2,87	JAN 30,87	566.0		34.3		4.16		4.10		******		0.0892		1.30		0.93
FEB 3,87	FEB 2,87	81.0		23.5		******		4.29		******		0.0685		1.30		0.54
FEB 4,87	FEB 3,87	26.0		24.7		******		4.23		******		0.0712		1.50		0.41
FEB 5,87	FEB 4,87	133.0		4.7		5.01		5.10		******		0.0258		0.25	LG	0.05
FEB 6,87	FEB 5,87	89.0		21.5		******		4.43		******		0.0621		0.65		0.65
FEB 7,87	FEB 6,87	103.0		44.1		4.18		4.21		******		0.0853		3.15		1.43
FEB 9,87	FEB 7,87	661.0		21.6		4.32		4.36		******		0.0604		0.65		0.70
FEB 10,87	FEB 9,87	19.0		12.0		******		4.70		******		0.0358		0.45		0.43
FEB 13,87	FEB 12,87	70.0		46.2		******		4.00		******		0.1180		0.80		1.41
FEB 23,87	FEB 22,87	12.0		25.5		******		4.25		******		0.0698		0.55		0.78
MAR 2,87	FEB 28,87	1147.0		14.4		4.46		4.51		******		0.0515		0.75		0.26
MAR 3,87	MAR 2,87	42.0		15.4		******		4.52		******		0.0490		0.90		0.26
MAR 4,87	MAR 3,87	6.0		******		******		******		******		******		******		******
MAR 26,87	MAR 25,87	319.0		43.0		4.00		4.14		******		0.1160		2.95		0.86
MAR 27,87	MAR 26,87	154.0		51.5		3.94		4.07		******		0.1280		3.85		1.09
MAR 30,87	MAR 29,87	783.0		42.0		3.99		4.13		******		0.1130		3.40		0.69
APR 1,87	MAR 30,87	1370.0		10.5		4.55		4.72		******		0.0390		0.90	LG	0.09
APR 2,87	APR 1,87	154.0		27.0		4.18		4.20		******		0.0792		0.70		0.77
APR 3,87	APR 2,87	73.0		45.0		******		4.10		******		0.1160		2.70		0.85
APR 5,87	APR 4,87	340.0		7.0		4.84		5.17		******		0.0255		0.60	LG	0.07
APR 6,87	APR 5,87	12.0		4.5		******	IIR	******		******	LG	0.0120		0.30	<T	0.04
APR 13,87	APR 12,87	312.0		57.0		3.83		3.93		******		0.1640		6.35		1.39
APR 22,87	APR 21,87	20.0		26.0		******	UG	6.46		******		0.0210		6.55		0.99
APR 24,87	APR 23,87	86.0	>	100.0		******	LG	3.41		******	UG	0.4310	UG	14.10		2.95
APR 28,87	APR 27,87	809.0		15.0		4.45		4.68		******		0.0415		1.65		0.81
APR 29,87	APR 28,87	209.0		8.0	UG	5.05	UG	6.11		******		0.0197		1.20		0.34
APR 30,87	APR 29,87	250.0		39.0	UG	6.64	UG	7.29		******		0.0199		5.55		1.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIUM MG/L		POTASSIUM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
JAN 7,87	JAN 6,87	0.76		0.70		0.110		0.045		0.280		1.500		0.1778
JAN 9,87	JAN 8,87	0.12		0.10	<T	0.015	<T	0.020		0.045		0.445		0.0617
JAN 12,87	JAN 9,87	<T 0.06		0.12	<T	0.010	<T	0.005		0.040		0.150		0.0513
JAN 13,87	JAN 12,87	!IS ######		0.06	!IS	######	!IS	######	!IS	######	!IS	######		0.0135
JAN 15,87	JAN 14,87	######		######		######		######		######		######		######
JAN 16,87	JAN 15,87	0.14		0.14	<T	0.020		0.040		0.080		0.600		0.0525
JAN 19,87	JAN 17,87	<T 0.06		0.10	<T	0.005	<W	0.005	<T	0.020	<T	0.010		0.0324
JAN 21,87	JAN 20,87	0.10		0.16	<T	0.015	<T	0.010		0.070		0.155		0.0490
JAN 22,87	JAN 21,87	<T 0.08		0.15	<T	0.020	<T	0.010		0.085		0.085		0.0302
JAN 23,87	JAN 22,87	<T 0.08		0.19	<T	0.005	<T	0.005		0.040	<T	0.025		0.0955
JAN 24,87	JAN 23,87	######		######		######		######		######		######		######
JAN 28,87	JAN 26,87	<T 0.10		0.18	<T	0.010	<W	0.005		0.080	<T	0.010	!IR	######
JAN 29,87	JAN 28,87	<T 0.08		0.25	<T	0.010	<T	0.015		0.100		0.260		0.0613
FEB 2,87	JAN 30,87	0.16		0.19	<T	0.020	<T	0.025		0.075		0.300		0.0794
FEB 3,87	FEB 2,87	<T 0.08		0.18	<T	0.010	<T	0.025		0.080		0.315		0.0513
FEB 4,87	FEB 3,87	<T 0.06		0.20	<T	0.005		0.025		0.080		0.125		0.0589
FEB 5,87	FEB 4,87	<W 0.02		0.06	<T	0.005	<W	0.005	<T	0.020	<T	0.010		0.0079
FEB 6,87	FEB 5,87	0.18		0.25		0.040	<T	0.015		0.065		0.175		0.0372
FEB 7,87	FEB 6,87	0.20		0.34		0.035		0.030		0.125		1.250		0.0617
FEB 9,87	FEB 7,87	<T 0.08		0.16	<T	0.010	<T	0.010	<T	0.020		0.240		0.0437
FEB 10,87	FEB 9,87	0.18		0.16		0.040	<T	0.015		0.085		0.080		0.0200
FEB 13,87	FEB 12,87	0.18		0.57	<T	0.015	<T	0.010		0.210		0.140		0.1000
FEB 23,87	FEB 22,87	0.14		0.20		0.030		0.070		0.100	<T	0.020		0.0562
MAR 2,87	FEB 28,87	<W 0.02	<T	0.02	<W	0.005	<W	0.005	<T	0.010		0.045		0.0309
MAR 3,87	MAR 2,87	<T 0.10		0.15	<T	0.015		0.030		0.105	LQ	0.010		0.0302
MAR 4,87	MAR 3,87	######		######		######		######		######		######		######
MAR 26,87	MAR 25,87	D 0.34	D	0.18		0.040		0.030		0.050		0.350		0.0724
MAR 27,87	MAR 26,87	0.20		0.17	<T	0.010		0.100		0.080		0.780		0.0851
MAR 30,87	MAR 29,87	0.20	<W	0.01	<T	0.025		0.045		0.045		0.375		0.0741
APR 1,87	MAR 30,87	<T 0.02	<W	0.01	<W	0.005	<T	0.010	<T	0.010	<T	0.020		0.0191
APR 2,87	APR 1,87	<T 0.04		0.08	<T	0.005	<T	0.010	<T	0.020		0.060		0.0631
APR 3,87	APR 2,87	0.18	<W	0.01	<T	0.010	<T	0.020		0.050		0.340		0.0794
APR 5,87	APR 4,87	<T 0.02		0.15	<T	0.005		0.050	D	0.180		0.030		0.0068
APR 6,87	APR 5,87	<T 0.02		0.11	<T	0.005		0.030		0.115	<W	0.005	!IR	######
APR 13,87	APR 12,87	0.78		0.36		0.100		0.125		0.110		0.950		0.1175
APR 22,87	APR 21,87	1.50		0.32		0.235	UQ	0.275		0.140		1.950	UQ	0.0003
APR 24,87	APR 23,87	0.88		0.78		0.115		0.155		0.180		2.000	LQ	0.3890
APR 28,87	APR 27,87	0.38		0.23		0.045		0.080		0.070		0.345		0.0209
APR 29,87	APR 28,87	0.30		0.36		0.065		0.155		0.225		0.385	UQ	0.0008
APR 30,87	APR 29,87	2.56		0.43		0.540	UQ	0.250		0.220		1.850	UQ	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #06 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 11,87	MAY 10,87	800	800	530	800	1	3.4	1	45598	2	1	104		J
MAY 12,87	MAY 11,87	800	800	800	1400	1	6.2	1	45601	2	1	99		J
MAY 15,87	MAY 14,87	800	800	1900	2100	1	24.4	1	45604	2	1	101		
MAY 17,87	MAY 16,87	800	800	2000	2200	1	1.8	1	45609	2	1	96		J
MAY 18,87	MAY 17,87	800	800	900	1000	1	0.6	1	45612	2	1	31		NH
MAY 19,87	MAY 18,87	800	800	****	****	1	0.3	1	45615	2	1	5	E	N
MAY 22,87	MAY 21,87	745	730	****	****	1	8.5	1	45618	2	1	108		
MAY 23,87	MAY 22,87	730	730	2330	30	1	0.9	1	45621	2	1	86		
MAY 24,87	MAY 23,87	730	800	1330	1530	1	2.6	1	45624	2	1	48		N
MAY 25,87	MAY 24,87	800	750	830	900	1	0.4	1	45627	2	1	35		NHCM
MAY 27,87	MAY 26,87	800	825	330	600	1	15.5	1	45630	2	1	104		
MAY 28,87	MAY 27,87	825	800	1030	1200	1	4.8	1	45635	2	1	90		
JUN 1,87	MAY 31,87	800	730	900	1230	1	4.3	1	45638	2	1	103	Q	
JUN 2,87	JUN 1,87	730	745	1930	2030	1	0.9	1	45641	2	1	78		TM
JUN 3,87	JUN 2,87	745	800	500	700	1	1.2	1	45644	2	1	96		TCM
JUN 4,87	JUN 3,87	800	750	1045	1115	1	2.2	1	45647	2	1	107		TM
JUN 6,87	JUN 5,87	800	745	1415	1430	1	0.4	1	45650	2	1	11		NT
JUN 7,87	JUN 6,87	745	715	230	700	1	8.6	1	45653	2	1	104		HM
JUN 8,87	JUN 7,87	715	800	630	800	1	9.5	1	45656	2	1	104		H
JUN 9,87	JUN 8,87	800	530	800	805	1	0.2	1	45659	2	1	23	E	N
JUN 10,87	JUN 9,87	530	630	900	1100	1	7.2	1	45662	2	1	91		HM
JUN 12,87	JUN 11,87	800	730	1645	2100	1	7.2	1	45665	2	1	102		TM
JUN 13,87	JUN 12,87	730	600	730	900	1	0.2	1	45668	2	1	46	E	N
JUN 19,87	JUN 18,87	1045	730	530	600	1	1.5	1	45672	2	1	96		
JUN 23,87	JUN 22,87	800	645	****	****	1	0.1	1	45675	2	1	****	E	N
JUN 26,87	JUN 25,87	800	745	600	145	1	4.4	1	45678	2	1	102		
JUN 27,87	JUN 26,87	745	800	1000	1015	1	0.4	1	45681	2	1	202		N
JUN 28,87	JUN 27,87	800	830	1430	1530	1	4.0	1	45684	2	1	99		
JUN 29,87	JUN 28,87	830	700	630	700	1	0.6	1	45687	2	1	96		
JUN 30,87	JUN 29,87	700	630	2115	2200	1	13.9	1	45690	2	1	100		
JUL 4,87	JUL 3,87	735	745	1600	1700	1	3.9	1	45695	2	1	109		C
JUL 14,87	JUL 13,87	1100	700	230	700	1	17.4	1	45699	2	1	100		
JUL 15,87	JUL 14,87	700	800	700	1100	1	7.4	1	45703	2	1	99		C
JUL 19,87	JUL 18,87	800	800	2000	2010	1	1.2	1	45705	2	1	94		
JUL 20,87	JUL 19,87	800	800	2290	2330	1	3.2	1	45707	2	1	98		
JUL 25,87	JUL 24,87	950	730	130	145	1	2.4	1	45710	2	1	94		
JUL 30,87	JUL 29,87	800	800	100	130	1	0.8	1	45712	2	1	81		
AUG 3,87	AUG 2,87	630	630	1100	1400	1	6.2	1	45714	2	1	103		
AUG 5,87	AUG 4,87	630	630	1020	1040	1	3.8	1	45716	2	1	107		
AUG 8,87	AUG 7,87	750	750	1130	1300	1	1.8	1	45718	2	1	95		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L	SULPHATE MG/L		NITRATE AS N MG/L
MAY 11,87	MAY 10,87	228.0	34.5	4.26		4.77	******		0.0574	5.55		1.01
MAY 12,87	MAY 11,87	395.0	42.5	4.09		4.59	******		0.0768	6.10		0.98
MAY 15,87	MAY 14,87	1594.0	42.4	4.02		4.15	******		0.0945	4.75		0.66
MAY 17,87	MAY 16,87	111.0	14.0	4.73	UG	6.09	******		0.0156	2.10		0.44
MAY 18,87	MAY 17,87	12.0	25.6	******	UG	6.37	******		0.0392	4.30		0.85
MAY 19,87	MAY 18,87	1.0	!NR ******	******	!NR	******	******	!NR	******	!NR ******	!NR	******
MAY 22,87	MAY 21,87	592.0	73.0	******		3.78	******		0.1920	7.10		1.01
MAY 23,87	MAY 22,87	50.0	55.0	******		4.12	******		0.1080	6.70		1.50
MAY 24,87	MAY 23,87	80.0	12.0	******		4.71	******		0.0305	1.10		0.25
MAY 25,87	MAY 24,87	9.0	3.9	******	UG	5.76	******		0.0162	0.40	<M	0.01
MAY 27,87	MAY 26,87	1036.0	82.0	3.73		3.72	******		0.2090	8.70		0.99
MAY 28,87	MAY 27,87	278.0	26.0	4.20		4.37	******		0.0666	2.40		0.44
JUN 1,87	MAY 31,87	284.8	38.4	4.06		4.02	******		0.1080	3.75		0.59
JUN 2,87	JUN 1,87	45.0	48.6	******		3.85	******		0.1380	2.85		1.04
JUN 3,87	JUN 2,87	74.0	100.0	******	LG	3.42	******	UG	0.3320	10.30		2.05
JUN 4,87	JUN 3,87	152.0	49.1	3.95		3.87	******		0.1320	5.15		0.77
JUN 6,87	JUN 5,87	34.0	34.2	******		3.97	******		0.1000	4.30		0.13
JUN 7,87	JUN 6,87	576.0	19.2	4.30		4.29	******		0.0561	1.70		0.38
JUN 8,87	JUN 7,87	636.0	28.8	4.24		4.32	******		0.0678	3.40		0.92
JUN 9,87	JUN 8,87	3.0	******	******		******	******		******	******		******
JUN 10,87	JUN 9,87	423.0	10.7	4.57		4.52	******		0.0367	1.00	<T	0.04
JUN 12,87	JUN 11,87	475.0	53.4	3.86		3.81	******		0.1460	5.40		0.78
JUN 13,87	JUN 12,87	6.0	******	******		******	******		******	******		******
JUN 19,87	JUN 18,87	93.0	82.8	******		3.85	******		0.1820	9.70		1.65
JUN 23,87	JUN 22,87	******	******	******		******	******		******	******		******
JUN 26,87	JUN 25,87	290.0	58.3	3.88		3.89	******		0.1560	4.95		0.80
JUN 27,87	JUN 26,87	52.0	37.8	******		4.15	******		0.0982	4.85		0.35
JUN 28,87	JUN 27,87	254.0	10.2	4.63		4.91	******		0.0305	1.00		0.20
JUN 29,87	JUN 28,87	37.0	24.5	******		4.41	******		0.0606	3.20		0.50
JUN 30,87	JUN 29,87	893.0	20.4	4.31		4.39	******		0.0592	1.95		0.30
JUL 4,87	JUL 3,87	273.0	14.3	3.90		3.98	******		0.1420	5.80		1.05
JUL 14,87	JUL 13,87	1126.0	6.7	4.75		5.17	******		0.0250	0.50		0.10
JUL 15,87	JUL 14,87	471.0	5.6	4.98		5.32	******		0.0218	0.25	<T	0.10
JUL 19,87	JUL 18,87	73.0	22.4	******		4.53	******		0.0552	2.85		0.45
JUL 20,87	JUL 19,87	202.0	25.2	4.19		4.34	******		0.0702	2.40		0.55
JUL 25,87	JUL 24,87	146.0	21.8	4.28		4.40	******		0.0616	2.05		0.50
JUL 30,87	JUL 29,87	42.0	32.3	******		4.31	******		0.0787	3.60		0.80
AUG 3,87	AUG 2,87	412.0	59.8	3.91		3.83	******		0.1650	5.60		0.80
AUG 5,87	AUG 4,87	263.0	17.6	4.40		4.46	******		0.0515	1.85		0.25
AUG 8,87	AUG 7,87	110.0	68.6	3.87		3.80	******		0.1740	5.55		1.65

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
MAY 11,87	MAY 10,87	1.16		0.25		0.205		0.115		0.065		1.380		0.0170	
MAY 12,87	MAY 11,87	1.14		0.24		0.175		0.075		0.065		1.250		0.0257	
MAY 15,87	MAY 14,87	0.36		0.14		0.045		0.025	<T	0.010		0.800		0.0708	
MAY 17,87	MAY 16,87	0.64		0.10		0.130		0.075		0.030		0.580	UG	0.0008	
MAY 18,87	MAY 17,87	1.32		0.30		0.200		0.145		0.120		0.940	UG	0.0004	
MAY 19,87	MAY 18,87	!NR ******		!NR ******		!NR ******		!NR ******		!NR ******		!NR ******		!NR ******	
MAY 22,87	MAY 21,87	0.24		0.23		0.035		0.055		0.045		0.705		0.1660	
MAY 23,87	MAY 22,87	0.68		0.31		0.140		0.130		0.125		1.850		0.0759	
MAY 24,87	MAY 23,87	0.18		0.06		0.025		0.030		0.025		0.105		0.0195	
MAY 25,87	MAY 24,87	<T 0.04		<T 0.02		<T 0.005		<T 0.020	<T	0.020	<W	0.005	UG	0.0017	
MAY 27,87	MAY 26,87	0.22		0.19		0.030		0.040	<T	0.015		0.950		0.1905	
MAY 28,87	MAY 27,87	<T 0.10		0.10		<T 0.010		<T 0.020		0.025		0.355		0.0427	
JUN 1,87	MAY 31,87	0.20		0.23		0.030		0.110		0.100		0.495		0.0955	
JUN 2,87	JUN 1,87	0.42		0.22		0.040		0.055		0.050		0.080		0.1413	
JUN 3,87	JUN 2,87	0.56		0.45		0.085		0.095		0.105		0.460	LG	0.3802	
JUN 4,87	JUN 3,87	0.22		0.15		<T 0.025		0.035		0.040		0.700		0.1349	
JUN 6,87	JUN 5,87	0.28		0.09		0.055		0.220		0.040	!IS	******		0.1072	
JUN 7,87	JUN 6,87	<T 0.08		0.15		<T 0.010		0.065		0.065		0.345		0.0513	
JUN 8,87	JUN 7,87	0.66		0.21		0.115		0.070	D	0.040		0.950		0.0479	
JUN 9,87	JUN 8,87	******		******		******		******		******		******		******	
JUN 10,87	JUN 9,87	<T 0.06		0.08		<T 0.010		0.025		0.035	LG	0.040		0.0302	
JUN 12,87	JUN 11,87	0.38		0.20		0.065		0.065		0.035		0.410		0.1549	
JUN 13,87	JUN 12,87	******		******		******		******		******		******		******	
JUN 19,87	JUN 18,87	1.86		0.40		0.390		0.080		0.075		1.050		0.1413	
JUN 23,87	JUN 22,87	******		******		******		******		******		******		******	
JUN 26,87	JUN 25,87	0.30		0.30		0.035	D	0.090		0.090		0.230		0.1288	
JUN 27,87	JUN 26,87	<T 0.10		0.15		<T 0.010		0.205		0.060		0.715		0.0708	
JUN 28,87	JUN 27,87	0.14		0.10		<T 0.010		0.035		0.030		0.200		0.0123	
JUN 29,87	JUN 28,87	0.52		0.15		0.110		0.070		0.060		0.405		0.0389	
JUN 30,87	JUN 29,87	0.16	<T	0.05	<T	0.015	<T	0.010	<T	0.010		0.225		0.0407	
JUL 4,87	JUL 3,87	0.44		0.10		0.060	<T	0.010	<W	0.005		1.000		0.1047	
JUL 14,87	JUL 13,87	<W 0.02		0.25	<W	0.005		0.080		0.120		0.095		0.0068	
JUL 15,87	JUL 14,87	<W 0.02	D	0.30	<W	0.005		0.100	D	0.260	<T	0.015		0.0048	
JUL 19,87	JUL 18,87	0.52		0.10		0.105		0.055		0.035		0.410		0.0295	
JUL 20,87	JUL 19,87	0.50		0.15		0.070		0.035		0.045		0.135		0.0457	
JUL 25,87	JUL 24,87	0.36		0.10		0.070		0.040		0.120		0.250		0.0398	
JUL 30,87	JUL 29,87	0.92		0.30		0.145		0.145		0.100		0.380		0.0490	
AUG 3,87	AUG 2,87	0.18		0.20		0.025		0.055		0.045		0.425		0.1479	
AUG 5,87	AUG 4,87	0.20		0.10	<T	0.020		0.045		0.035		0.205		0.0347	
AUG 8,87	AUG 7,87	0.98		0.35		0.165		0.100		0.065		0.460		0.1585	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 10,87	AUG 9,87	800	800	1200	1400	1	2.7	1	45720	2	1	101		M
AUG 14,87	AUG 13,87	1130	730	515	630	1	1.9	1	45723	2	1	98		C
AUG 15,87	AUG 14,87	730	755	200	745	1	15.8	1	45725	2	1	104		
AUG 17,87	AUG 16,87	800	800	130	300	1	1.2	1	45729	2	1	89		
AUG 18,87	AUG 17,87	800	640	1700	1730	1	0.6	1	45731	2	1	46		M
AUG 19,87	AUG 18,87	640	740	200	300	1	1.5	1	45733	2	1	89		
AUG 20,87	AUG 19,87	740	730	2355	5	1	2.8	1	45735	2	1	96		
AUG 22,87	AUG 21,87	800	815	330	600	1	10.6	1	45737	2	1	106		
AUG 23,87	AUG 22,87	815	615	1200	1300	1	1.2	1	45739	2	1	83		
AUG 29,87	AUG 28,87	745	800	430	600	1	3.0	1	45742	2	1	100		
AUG 31,87	AUG 30,87	830	730	30	700	1	22.2	1	45744	2	1	104		
SEP 1,87	AUG 31,87	730	640	****	****	1	0.5	1	45746	2	1	49		NHH
SEP 2,87	SEP 1,87	640	700	2100	2330	1	2.0	1	45749	2	1	88		JH
SEP 3,87	SEP 2,87	700	800	****	****	1	0.4	1	45751	2	1	15	E	N
SEP 8,87	SEP 7,87	820	640	1430	1500	1	0.7	1	45752	2	1	82		
SEP 9,87	SEP 8,87	640	800	1800	1930	1	2.1	1	45754	2	1	95		
SEP 12,87	SEP 11,87	800	800	2130	2230	1	2.6	1	45756	2	1	91		
SEP 14,87	SEP 13,87	800	800	1700	1800	1	20.0	1	45758	2	1	104		
SEP 20,87	SEP 19,87	745	800	930	1930	1	14.0	1	45765	2	1	101		
SEP 21,87	SEP 20,87	800	800	1400	100	1	3.8	1	45767	2	1	86		
SEP 22,87	SEP 21,87	800	730	1300	1330	1	0.4	1	45769	2	1	70		
SEP 24,87	SEP 23,87	815	815	****	****	1	7.3	1	45771	2	1	101		
SEP 28,87	SEP 27,87	815	815	1900	2030	1	4.4	1	45773	2	1	96		HN
SEP 29,87	SEP 28,87	815	630	****	****	1	0.3	1	45775	2	1	20	E	N
SEP 30,87	SEP 29,87	630	630	1430	1930	1	10.2	1	45777	2	1	101		
OCT 1,87	SEP 30,87	830	630	1700	1930	1	1.2	1	45779	2	1	79		
OCT 2,87	OCT 1,87	630	815	2100	800	1	9.4	1	45781	2	1	100		M
OCT 3,87	OCT 2,87	815	845	1500	1700	1	1.9	1	45783	2	1	68		
OCT 6,87	OCT 5,87	815	815	430	700	1	1.8	1	45785	2	1	96		
OCT 7,87	OCT 6,87	815	815	1645	1730	1	9.3	1	45787	2	1	102		M
OCT 8,87	OCT 7,87	815	815	45	310	1	0.8	1	45789	2		52		
OCT 9,87	OCT 8,87	815	800	1230	1410	3	1.2	1	45791	2	1	85		
OCT 10,87	OCT 9,87	800	800	1930	2000	1	4.0	1	45793	2	1	100		M
OCT 12,87	OCT 11,87	815	800	630	800	1	1.0	1	45795	2	1	57		
OCT 13,87	OCT 12,87	800	800	930	1130	1	1.9	1	45797	2	1	87		
OCT 16,87	OCT 15,87	815	745	200	600	1	0.2	1	45799	2	1	46	E	N
OCT 18,87	OCT 17,87	815	830	30	600	1	13.5	1	45801	2	1	89		
OCT 19,87	OCT 18,87	830	815	930	1100	1	0.8	1	45805	2	1	46		N
OCT 20,87	OCT 19,87	815	730	500	730	1	1.2	1	45807	2	1	65		JC
OCT 21,87	OCT 20,87	730	800	1310	1900	3	6.2	1	45809	2	1	85		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 10,87	AUG 9,87	175.0		10.3		4.48		4.59		******		0.0398		0.75		0.10
AUG 14,87	AUG 13,87	120.0	>	100.0	LG	3.31	LG	3.29		******	UG	0.6220	UG	17.50	UG	4.95
AUG 15,87	AUG 14,87	1060.0		68.0		3.74		3.78		******		0.2100		6.20		1.05
AUG 17,87	AUG 16,87	69.0		86.0		******		3.74		******		0.2500		10.10		1.65
AUG 18,87	AUG 17,87	18.0		45.5		******		4.03		******		0.1370		5.40		0.81
AUG 19,87	AUG 18,87	86.0		11.0		******		4.77		******		0.0401		1.05		0.25
AUG 20,87	AUG 19,87	173.0		4.0		4.89		5.35		******		0.0227		0.35		0.07
AUG 22,87	AUG 21,87	726.0		22.0		4.26		4.38		******		0.0673		2.25		0.45
AUG 23,87	AUG 22,87	64.0		23.5		******		4.33		******		0.0780		2.90		0.20
AUG 29,87	AUG 28,87	194.0		40.5		4.06		4.03		******		0.1340		4.70		0.20
AUG 31,87	AUG 30,87	1483.0		16.5		4.55		4.54		******		0.0544		1.95		0.24
SEP 1,87	AUG 31,87	16.0	LG	2.5		******	UG	5.62		******		0.0175	LG	0.30	<T	0.03
SEP 2,87	SEP 1,87	114.0		8.0		4.83		5.48		******		0.0225		0.90		0.12
SEP 3,87	SEP 2,87	4.0		******		******		******		******		******		******		******
SEP 8,87	SEP 7,87	37.0	>	100.0		******	LG	3.39		******	UG	0.4720	UG	19.30		2.90
SEP 9,87	SEP 8,87	129.0		28.5		4.20		4.24		******		0.0834		3.40		0.21
SEP 12,87	SEP 11,87	153.0	>	100.0	LG	3.52		3.59		******	UG	0.3040		13.25		1.45
SEP 14,87	SEP 13,87	1338.0		43.5		4.03		4.11		******		0.1000		4.80		0.40
SEP 20,87	SEP 19,87	912.0		16.3		4.41		4.44		******		0.0575		1.15		0.19
SEP 21,87	SEP 20,87	210.0		44.0		4.00		4.03		******		0.1210		3.60		0.57
SEP 22,87	SEP 21,87	18.0		8.4		******		4.78		******		0.0355		0.80	<T	0.04
SEP 24,87	SEP 23,87	477.0		16.3		******		4.52		******		0.0534		1.85		0.10
SEP 28,87	SEP 27,87	273.0		12.6		4.49		4.67		******		0.0457		1.25		0.27
SEP 29,87	SEP 28,87	4.0		******		******		******		******		******		******		******
SEP 30,87	SEP 29,87	663.0		36.9		4.08		4.12		******		0.1020		3.85		0.38
OCT 1,87	SEP 30,87	61.0		19.2		******		4.49		******	IR	******		2.35		0.11
OCT 2,87	OCT 1,87	607.0		17.6		4.85		5.09		******		0.0311		2.60		0.62
OCT 3,87	OCT 2,87	84.0		8.8		******	UG	6.18		******		0.0207		1.85		0.25
OCT 6,87	OCT 5,87	111.0		48.0		3.97		4.06		******		0.1180		3.85		1.26
OCT 7,87	OCT 6,87	614.0		31.8		5.10		5.53		******		0.0309		6.55		1.19
OCT 8,87	OCT 7,87	27.0		6.9		******		5.08		******		0.0277		0.55		0.20
OCT 9,87	OCT 8,87	66.0		27.0		******		4.31		******		0.0799		1.25		0.94
OCT 10,87	OCT 9,87	258.0		31.0		4.56		4.73		******		0.0485		3.75		1.20
OCT 12,87	OCT 11,87	37.0		37.0		******		4.15		******		0.0988		2.90		0.62
OCT 13,87	OCT 12,87	106.0		30.0		4.25		4.29		******		0.0772		2.10		0.71
OCT 16,87	OCT 15,87	6.0		******		******		******		******		******		******		******
OCT 18,87	OCT 17,87	775.0		27.0		4.27		4.27		******		0.0711		2.30		0.45
OCT 19,87	OCT 18,87	24.0		9.0		******		4.64		******		0.0403		1.30		0.08
OCT 20,87	OCT 19,87	50.0	>	100.0		3.72		3.55		******	UG	0.3150		15.60		3.15
OCT 21,87	OCT 20,87	338.0		95.0		******		3.70		******		0.2260		7.25		1.80

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
AUG 10,87	AUG 9,87	<T	0.04	<T	0.05	<T	0.005		0.025	<T	0.020	<W	0.005	0.0257
AUG 14,87	AUG 13,87		1.86	UG	1.54		0.320		0.070		0.070		0.555	LG 0.5129
AUG 15,87	AUG 14,87		0.34		0.25		0.060		0.025		0.040		0.155	0.1660
AUG 17,87	AUG 16,87		1.16		0.71		0.255		0.120	UG	0.390		0.760	0.1820
AUG 18,87	AUG 17,87		0.28		0.22		0.045		0.040		0.090		0.515	0.0933
AUG 19,87	AUG 18,87		0.12		0.41	<T	0.020		0.150		0.280		0.075	0.0170
AUG 20,87	AUG 19,87	<T	0.04		0.08	<T	0.005		0.045		0.035		0.050	0.0045
AUG 22,87	AUG 21,87		0.28	<W	0.01		0.040		0.025		0.030		0.335	0.0417
AUG 23,87	AUG 22,87		0.10	<W	0.01	<T	0.015		0.040		0.045		0.280	0.0468
AUG 29,87	AUG 28,87		0.26	<W	0.01		0.030	<T	0.025		0.030	LG	0.040	0.0933
AUG 31,87	AUG 30,87	<T	0.08	<T	0.03	<T	0.005		0.025	<W	0.005		0.340	0.0288
SEP 1,87	AUG 31,87		0.14	<W	0.01	<T	0.020		0.030		0.035	LG	0.035	UG 0.0024
SEP 2,87	SEP 1,87		0.20		0.55		0.050		0.255	UG	0.355		0.100	0.0033
SEP 3,87	SEP 2,87		******		******		******		******		******		******	******
SEP 8,87	SEP 7,87	!IS	******		0.69	!IS	******	!IS	******	!IS	******	!IS	******	LG 0.4074
SEP 9,87	SEP 8,87		0.22	D	0.13	<T	0.020		0.065		0.085		0.225	0.0575
SEP 12,87	SEP 11,87		0.34		0.29		0.060		0.045	<T	0.020		1.100	0.2570
SEP 14,87	SEP 13,87	<T	0.08		0.09	<T	0.010	<T	0.010	<T	0.010		0.550	0.0776
SEP 20,87	SEP 19,87	<T	0.06	<T	0.02	<W	0.005	<T	0.005	<W	0.005	LG	0.035	0.0363
SEP 21,87	SEP 20,87	<T	0.10	<T	0.03	<T	0.010	<T	0.020	<T	0.015		0.255	0.0933
SEP 22,87	SEP 21,87	<T	0.08	<T	0.02	<T	0.005	<W	0.005	<T	0.020	<W	0.005	0.0166
SEP 24,87	SEP 23,87		0.16	<T	0.02		0.025		0.035	<T	0.015		0.125	0.0302
SEP 28,87	SEP 27,87		0.52	<T	0.02		0.045		0.030	<T	0.015		0.080	0.0214
SEP 29,87	SEP 28,87		******		******		******		******		******		******	******
SEP 30,87	SEP 29,87		0.22	<T	0.05	<T	0.010		0.040	<T	0.010		0.455	0.0759
OCT 1,87	SEP 30,87		0.28		0.15		0.060		0.045		0.090		0.080	0.0324
OCT 2,87	OCT 1,87		0.82	<T	0.05		0.155		0.110		0.035		0.570	0.0081
OCT 3,87	OCT 2,87		0.50	<T	0.04		0.090		0.085		0.100		0.295	UG 0.0007
OCT 6,87	OCT 5,87		0.96		0.12		0.115		0.070		0.040		0.550	0.0871
OCT 7,87	OCT 6,87		1.74		0.20		0.255		0.110	UG	1.320		0.950	0.0030
OCT 8,87	OCT 7,87	!IS	******		0.06	!IS	******	!IS	******	!IS	******		0.065	0.0083
OCT 9,87	OCT 8,87		0.46		0.27		0.085		0.035		0.070		0.155	0.0490
OCT 10,87	OCT 9,87		1.48		0.29		0.205		0.130		0.065		0.900	0.0186
OCT 12,87	OCT 11,87		0.48		0.13		0.060	<T	0.020		0.055		0.150	0.0708
OCT 13,87	OCT 12,87		0.36		0.09		0.040	<T	0.015		0.025		0.255	0.0513
OCT 16,87	OCT 15,87		******		******		******		******		******		******	******
OCT 18,87	OCT 17,87		0.14		0.08	<T	0.010	<T	0.015	<T	0.015		0.355	0.0537
OCT 19,87	OCT 18,87		0.12		0.05	<T	0.005		0.030		0.115	!IS	******	0.0229
OCT 20,87	OCT 19,87		0.72		0.50		0.080		0.140		0.110		2.700	0.2818
OCT 21,87	OCT 20,87		0.42		0.31		0.030		0.035		0.030		1.000	0.1995

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 906

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 22,87	OCT 21,87	800	800	100	115	2	0.2	2	45811	2	1		31	E	N
OCT 23,87	OCT 22,87	800	745	2000	2400	3	10.4	2	45813	2	1		107		
OCT 24,87	OCT 23,87	745	815	****	****	1	****	1	45815	2	1		****		X
OCT 25,87	OCT 24,87	815	800	1300	600	3	22.0	2	45817	2	1		104		
OCT 27,87	OCT 26,87	730	800	500	800	1	5.0	1	45819	2	1		99		
OCT 28,87	OCT 27,87	800	800	800	1730	1	14.4	1	45821	2	1		93		
OCT 30,87	OCT 29,87	800	745	2000	2030	1	1.4	1	45823	2	1		82		
OCT 31,87	OCT 30,87	745	800	900	1210	1	2.0	1	45825	2	1		63		
NOV 3,87	NOV 2,87	800	800	200	800	1	4.2	1	45827	2	1		96		
NOV 4,87	NOV 3,87	800	810	800	1130	1	3.1	1	45829	2	1		66		J
NOV 5,87	NOV 4,87	810	730	1500	1715	1	4.1	1	45831	2	1		83	A	
NOV 6,87	NOV 5,87	730	800	****	****	3	2.2	1	45833	2	1		90		M
NOV 7,87	NOV 6,87	800	800	800	900	2	1.7	2	45835	2	1		75		MM
NOV 9,87	NOV 8,87	730	800	1300	****	1	6.0	2	45837	2	1		94		
NOV 12,87	NOV 11,87	735	815	330	430	2	0.2	2	45839	2	1		101		
NOV 18,87	NOV 17,87	805	740	1200	1900	1	8.4	1	45843	2	1		93		
NOV 19,87	NOV 18,87	740	800	930	1530	3	5.5	1	45845	2	1		89		
NOV 20,87	NOV 19,87	800	730	1500	2400	3	5.6	2	45847	2	1		95		
NOV 21,87	NOV 20,87	730	830	230	330	2	0.3	1	45849	2	1		10		M
NOV 22,87	NOV 21,87	830	830	****	****	2	****	1	45851	2	1		****		X
NOV 24,87	NOV 23,87	745	730	1115	2350	1	6.6	1	45853	2	1		114		
NOV 25,87	NOV 24,87	730	730	****	****	1	0.2	2	45855	2	1	U	31	G	X
NOV 26,87	NOV 25,87	730	815	830	2000	2	19.6	2	45857	2	1		31		N
NOV 29,87	NOV 28,87	745	830	330	800	1	2.8	2	45859	2	1		121		N
NOV 30,87	NOV 29,87	830	805	845	1330	1	11.0	1	45861	2	1		78		
DEC 1,87	NOV 30,87	805	810	1400	1500	3	1.4	2	45863	2	1		86		
DEC 2,87	DEC 1,87	810	730	2230	415	2	0.4	2	45865	2	1		7		XN
DEC 3,87	DEC 2,87	730	830	1550	2030	2	1.4	2	45867	2	1		85		
DEC 8,87	DEC 7,87	800	730	****	****	1	****	2	45871	2	1		****		
DEC 9,87	DEC 8,87	730	810	730	1600	1	5.5	2	45873	2	1		105		
DEC 10,87	DEC 9,87	810	810	810	1330	1	13.9	1	45875	2	1		87		
DEC 11,87	DEC 10,87	810	730	800	1000	1	2.2	1	45877	2	1		65		M
DEC 12,87	DEC 11,87	730	1030	****	200	2	4.6	2	45879	2	1		92		
DEC 13,87	DEC 12,87	1030	810	1620	2130	2	1.9	2	45881	2	1		134		N
DEC 14,87	DEC 13,87	810	730	830	1200	3	4.5	2	45883	2	1		97		
DEC 15,87	DEC 14,87	730	730	800	1450	2	0.6	2	45885	2	1		72		
DEC 16,87	DEC 15,87	730	830	855	830	2	24.6	2	45887	2	1		38		N
DEC 17,87	DEC 16,87	830	815	815	1400	2	1.0	2	45889	2	1		3		XN
DEC 19,87	DEC 18,87	800	830	2200	130	2	2.7	2	45891	2	1		62		
DEC 20,87	DEC 19,87	830	745	830	1230	2	7.2	2	45893	2	1		58		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
OCT 22,87	OCT 21,87	4.0		******		******		******		******		******		******		******	
OCT 23,87	OCT 22,87	714.0		17.0		4.24		4.39		******		0.0610		1.20		0.60	
OCT 24,87	OCT 23,87	2.0		******		******		******		******		******		******		******	
OCT 25,87	OCT 24,87	1472.0		25.0		4.27		4.27		******		0.0822		2.05		0.67	
OCT 27,87	OCT 26,87	319.0		30.0		4.19		4.19		******		0.0942		2.60		0.50	
OCT 28,87	OCT 27,87	867.0		27.0		4.19		4.25		******		0.0885		2.85		0.41	
OCT 30,87	OCT 29,87	74.0		31.0		******		4.27		******		0.0858		1.60		1.26	
OCT 31,87	OCT 30,87	82.0		68.0		******		3.99		******		0.1610		4.60		2.92	
NOV 3,87	NOV 2,87	260.0		33.0		4.08		4.19		******		0.1000		3.15		0.68	
NOV 4,87	NOV 3,87	133.0		35.0		4.47		4.23		******		0.0986		3.50		1.01	
NOV 5,87	NOV 4,87	220.0		17.0		4.51		4.59		******		0.0559		2.80		0.54	
NOV 6,87	NOV 5,87	127.0		8.0		4.66		4.69		******		0.0380		1.30	LQ	0.07	
NOV 7,87	NOV 6,87	82.0		4.5		******		5.12		******		0.0247		0.75		0.20	
NOV 9,87	NOV 8,87	364.0		32.0		4.12		4.15		******		0.0978		2.30		1.04	
NOV 12,87	NOV 11,87	13.0		7.0		******		5.15		******		0.0288		1.15		0.41	
NOV 18,87	NOV 17,87	502.0		28.0		4.19		4.29		******		0.0797		2.70		0.45	
NOV 19,87	NOV 18,87	314.0		8.0		4.75		4.70		******		0.0325		0.90		0.11	
NOV 20,87	NOV 19,87	344.0		13.0		4.78		4.78		******		0.0410		0.95		0.50	
NOV 21,87	NOV 20,87	2.0	!IS	******		******	!IS	******		******	!IS	******	!IS	******	!IS	******	
NOV 22,87	NOV 21,87	2.0		******		******		******		******		******		******		******	
NOV 24,87	NOV 23,87	485.0		39.0		4.32		4.26		******		0.0966		3.80		1.30	
NOV 25,87	NOV 24,87	4.0		******		******		******		******		******		******		******	
NOV 26,87	NOV 25,87	394.0		5.0	UQ	5.07		4.90		******		0.0247	<T	0.20		0.14	
NOV 29,87	NOV 28,87	218.0		8.0		4.88		4.80		******	D	0.0306		0.70		0.16	
NOV 30,87	NOV 29,87	552.0		13.0		4.50		4.45		******		0.0473		0.85		0.27	
DEC 1,87	NOV 30,87	78.0		20.0		******		4.30		******		0.0582		1.00		0.63	
DEC 2,87	DEC 1,87	2.0		******		******		******		******		******		******		******	
DEC 3,87	DEC 2,87	77.0		9.0		******		4.60		******		0.0312		0.65		0.15	
DEC 8,87	DEC 7,87	10.0		6.0		******		5.48		******		0.0214		0.75		0.12	
DEC 9,87	DEC 8,87	373.0		46.0		3.96		4.05		******		0.1300		3.20		0.70	
DEC 10,87	DEC 9,87	780.0		25.0		4.26		4.36		******		0.0756		2.00		0.46	
DEC 11,87	DEC 10,87	93.0		10.0		******		4.74		******		0.0378		0.80		0.25	
DEC 12,87	DEC 11,87	274.0		42.0		4.06		4.11		******		0.1150		2.00		1.14	
DEC 13,87	DEC 12,87	164.0		16.0		4.57		4.64		******		0.0476		0.95		0.60	
DEC 14,87	DEC 13,87	280.0		7.0		4.81		4.92		******		0.0303		0.85		0.14	
DEC 15,87	DEC 14,87	28.0		21.0		******		4.65		******		0.0439		0.30		0.19	
DEC 16,87	DEC 15,87	604.0		18.0		4.41		4.49		******		0.0559		0.65		0.51	
DEC 17,87	DEC 16,87	2.0		******		******		******		******		******		******		******	
DEC 19,87	DEC 18,87	109.0		40.0		4.12		4.17		******		0.1050		1.90		1.20	
DEC 20,87	DEC 19,87	269.0		10.5		4.60		4.56		******		0.0402		0.45		0.35	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 12

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 22,87	OCT 21,87		******		******		******		******		******		******	******
OCT 23,87	OCT 22,87		0.12		0.17	<T	0.005	<T	0.010	<T	0.010		0.155	0.0407
OCT 24,87	OCT 23,87		******		******		******		******		******		******	******
OCT 25,87	OCT 24,87	<T	0.10		0.15	<T	0.010	<T	0.015	<T	0.010		0.285	0.0537
OCT 27,87	OCT 26,87		0.16		0.25	<T	0.010		0.035		0.040		0.045	0.0646
OCT 28,87	OCT 27,87	<T	0.04		0.17	<T	0.005	<T	0.020	<T	0.015		0.215	0.0562
OCT 30,87	OCT 29,87		0.46		0.32		0.070		0.070		0.060		0.285	0.0537
OCT 31,87	OCT 30,87		1.72		0.59		0.235		0.110		0.070		1.150	0.1023
NOV 3,87	NOV 2,87		0.16		0.06	<T	0.025		0.025		0.045		0.270	0.0646
NOV 4,87	NOV 3,87		0.28		0.25		0.035		0.060		0.080		0.710	0.0589
NOV 5,87	NOV 4,87	D	0.26		0.28	<T	0.015		0.050		0.035		0.635	0.0257
NOV 6,87	NOV 5,87	<W	0.02	<T	0.01	<T	0.005	<T	0.005	<T	0.005	<T	0.010	0.0204
NOV 7,87	NOV 6,87	<T	0.10		0.14	<T	0.020		0.030		0.050	<T	0.025	0.0076
NOV 9,87	NOV 8,87		0.26		0.16	D	0.030		0.045		0.025		0.445	0.0708
NOV 12,87	NOV 11,87	!IS	******		0.11	!IS	******	!IS	******	!IS	******		0.310	0.0071
NOV 18,87	NOV 17,87		0.18		0.46		0.045	<T	0.015		0.250		0.205	0.0513
NOV 19,87	NOV 18,87	<T	0.02	<T	0.04	<T	0.005	<W	0.005	<T	0.010		0.110	0.0200
NOV 20,87	NOV 19,87		0.26		0.08		0.030	<T	0.010		0.025		0.260	0.0166
NOV 21,87	NOV 20,87	!IS	******	!IS	******	!IS	******	!IS	******	!IS	******	!IS	******	!IS ******
NOV 22,87	NOV 21,87		******		******		******		******		******		******	******
NOV 24,87	NOV 23,87		0.72		0.38		0.075		0.050		0.205		1.000	0.0550
NOV 25,87	NOV 24,87		******		******		******		******		******		******	******
NOV 26,87	NOV 25,87	<W	0.02	<T	0.01	<W	0.005	<W	0.005	<T	0.005	<T	0.005	0.0126
NOV 29,87	NOV 28,87		0.14		0.14	<T	0.010	<T	0.020		0.065	<T	0.025	0.0158
NOV 30,87	NOV 29,87	<T	0.04	<T	0.03	<W	0.005	<W	0.005	<T	0.010	<T	0.020	0.0355
DEC 1,87	NOV 30,87		0.32		0.13	<T	0.015	<T	0.015		0.040		0.085	0.0501
DEC 2,87	DEC 1,87		******		******		******		******		******		******	******
DEC 3,87	DEC 2,87	<T	0.06	<T	0.03	<T	0.005	<W	0.005	<T	0.015	<T	0.005	0.0251
DEC 8,87	DEC 7,87	!IS	******	<T	0.01	!IS	******	!IS	******	!IS	******	<T	0.020	0.0033
DEC 9,87	DEC 8,87		0.14		0.48		0.025	<T	0.010		0.110		0.130	0.0891
DEC 10,87	DEC 9,87		0.10		0.10	<T	0.010	<T	0.010		0.045		0.275	0.0437
DEC 11,87	DEC 10,87	<T	0.06	<T	0.01	<W	0.005	<T	0.010		0.050		0.045	0.0182
DEC 12,87	DEC 11,87		0.18		0.20	<T	0.010	<T	0.015		0.070		0.255	0.0776
DEC 13,87	DEC 12,87		0.16	<T	0.01	<T	0.015	<T	0.010		0.035		0.290	0.0229
DEC 14,87	DEC 13,87	<T	0.10	<T	0.01	<W	0.005	<W	0.005		0.040		0.115	0.0120
DEC 15,87	DEC 14,87	!IS	******	UG	2.50	!IS	******	!IS	******	!IS	******	<T	0.025	0.0224
DEC 16,87	DEC 15,87	<T	0.08		0.36	<W	0.005	<W	0.005		0.215		0.050	0.0324
DEC 17,87	DEC 16,87		******		******		******		******		******		******	******
DEC 19,87	DEC 18,87		0.42		0.60		0.060	<T	0.010		0.215		0.275	0.0676
DEC 20,87	DEC 19,87	<W	0.02	<T	0.01	<W	0.005	<W	0.005	<T	0.020		0.030	0.0275

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 13

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 21,87	DEC 20,87	745	730	800	2230	3	7.6	2	45895	2	1	80		M
DEC 22,87	DEC 21,87	730	830	1500	1900	2	11.3	2	45897	2	1	78		
DEC 23,87	DEC 22,87	830	730	1800	600	2	3.5	2	45899	2	1	44		M
DEC 24,87	DEC 23,87	730	730	900	1330	2	0.9	2	45901	2	1	86		
DEC 25,87	DEC 24,87	730	730	1200	1800	1	4.7	2	45903	2	1	81		
DEC 28,87	DEC 27,87	800	830	100	200	2	0.4	2	45905	2	1	113		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #06 PAGE : 14

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 21,87	DEC 20,87	390.0	20.0	4.35	4.43	******	0.0646	1.75	0.39
DEC 22,87	DEC 21,87	569.0	9.0	4.81	4.88	******	0.0338	0.70	0.44
DEC 23,87	DEC 22,87	100.0	31.0	4.22	4.24	******	0.0849	1.00	1.07
DEC 24,87	DEC 23,87	50.0	30.0	******	4.31	******	0.0730	1.00	0.89
DEC 25,87	DEC 24,87	247.0	42.0	4.15	4.19	******	0.0913	2.55	0.62
DEC 28,87	DEC 27,87	29.0	16.0	******	4.52	******	0.0526	1.40	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 15

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 21,87	DEC 20,87	<T 0.06		0.10	<T 0.005	<T 0.020		0.040		0.120	0.0372
DEC 22,87	DEC 21,87	0.16		0.17	<T 0.020	<T 0.010		0.035		0.245	0.0132
DEC 23,87	DEC 22,87	0.26		0.21	0.030	<T 0.010		0.060		0.255	0.0575
DEC 24,87	DEC 23,87	!IS ******		1.08	!IS ******	!IS ******		!IS ******		0.215	0.0490
DEC 25,87	DEC 24,87	0.20	B	2.70	<T 0.010	D 0.075		B 1.750		0.240	0.0646
DEC 26,87	DEC 27,87	!IS ******		0.12	!IS ******	!IS ******		!IS ******		0.165	0.0302

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 7,87	JAN 6,87	830	830	500	630	3	0.8	1	41932	2	1		50		
JAN 9,87	JAN 8,87	830	830	500	830	2	1.2	2	41933	2	1		124		N
JAN 10,87	JAN 9,87	830	830	830	1030	3	3.0	2	41934	2	1		82		
JAN 11,87	JAN 10,87	830	800	830	930	2	****	2	41935	2	1		****		HCN
JAN 16,87	JAN 15,87	800	900	****	****	3	0.2	2	41936	2	1		124		N
JAN 18,87	JAN 17,87	845	900	600	900	2	5.4	2	41937	2	1		95		
JAN 19,87	JAN 18,87	900	900	900	1100	2	0.8	2	41938	2	1		142		N
JAN 21,87	JAN 20,87	900	815	400	815	2	2.4	2	41939	2	1		79		
JAN 22,87	JAN 21,87	815	830	815	1100	2	1.2	2	41940	2	1		67		
JAN 23,87	JAN 22,87	830	900	300	430	2	4.2	2	41941	2	1		64		
JAN 29,87	JAN 28,87	815	900	1600	1700	2	0.4	2	41944	2	1		50		
JAN 31,87	JAN 30,87	800	900	830	1030	2	8.6	2	41945	2	1	U	28	Q	
FEB 2,87	FEB 1,87	900	900	400	500	2	3.2	2	41946	2	1		74		
FEB 3,87	FEB 2,87	900	900	500	600	3	1.6	2	41947	2	1		67		HN
FEB 4,87	FEB 3,87	900	815	400	500	2	****	2	41948	2	1		****	E	
FEB 6,87	FEB 5,87	815	830	****	****	2	4.0	2	41949	2	1		89		N
FEB 7,87	FEB 6,87	830	830	****	****	3	1.4	2	41950	2	1		55		HCN
FEB 9,87	FEB 7,87	900	900	900	1300	2	19.0	2	41951	2	1		61		YZ
FEB 10,87	FEB 9,87	900	830	400	500	2	****	2	41952	2	1		****	E	
FEB 13,87	FEB 12,87	815	900	500	600	2	0.6	2	41953	2	1		148		NHCN
MAR 2,87	FEB 28,87	800	900	300	800	3	26.8	2	41957	2	1		66		YZ
MAR 26,87	MAR 25,87	800	830	1300	1500	1	5.6	2	41962	2	1		120		N
MAR 27,87	MAR 26,87	830	730	830	930	1	0.6	2	41963	2	1		122		N
MAR 30,87	MAR 29,87	845	745	530	745	1	12.2	2	41964	2	1		96		
MAR 31,87	MAR 30,87	745	800	500	800	3	20.4	2	41965	2	1		66		
APR 1,87	MAR 31,87	800	745	800	1200	2	8.8	2	41966	2	1		53		CZ
APR 2,87	APR 1,87	745	730	400	600	2	6.6	2	41967	2	1		43		N
APR 3,87	APR 2,87	730	800	300	430	2	2.2	2	41968	2	1		39		N
APR 5,87	APR 4,87	745	800	500	800	1	3.6	2	41969	2	1		129		N
APR 6,87	APR 5,87	800	830	800	900	1	****	2	41970	2	1		****		HCN
APR 13,87	APR 12,87	800	1000	1800	2000	1	4.2	2	41971	2	1		116		
APR 22,87	APR 21,87	800	900	1500	1800	1	1.2	1	41972	2	1		96	A	H
APR 24,87	APR 23,87	730	730	400	600	1	1.4	1	41973	2	1		65		C
APR 28,87	APR 27,87	800	720	1500	1800	1	11.0	1	41974	2	1		99		
APR 29,87	APR 28,87	720	730	1100	1300	3	2.2	1	41975	2	1		71		HN
APR 30,87	APR 29,87	730	745	1800	1900	1	3.4	1	41976	2	1		86	C	J
MAY 11,87	MAY 10,87	800	730	500	700	1	2.6	1	41978	2	1		87		JN
MAY 12,87	MAY 11,87	730	730	2200	2300	1	6.4	1	41979	2	1		95		
MAY 15,87	MAY 14,87	730	725	1500	1630	1	18.2	1	41982	2	1		101		
MAY 17,87	MAY 16,87	730	830	1830	2000	1	3.0	1	41983	2	1		92		JHC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 7,87	JAN 6,87	26.0		74.0		******		3.90		******		0.1490		5.95		1.96	
JAN 9,87	JAN 8,87	96.0		25.6		4.46		4.46		******		0.0573		3.40		0.38	
JAN 10,87	JAN 9,87	158.0		17.8		4.51		4.54		******		0.0484		0.50		0.60	
JAN 11,87	JAN 10,87	8.0	LG	3.9		******	UG	5.88		******		0.0189	LG	0.15	LG	0.09	
JAN 16,87	JAN 15,87	16.0		50.1		******		4.11		******		0.1070		3.05		1.40	
JAN 18,87	JAN 17,87	330.0		12.2		4.71		4.77		******		0.0376		0.25		0.49	
JAN 19,87	JAN 18,87	73.0		7.3		******	UG	6.72		******		0.0167		0.25		0.24	
JAN 21,87	JAN 20,87	122.0	D	12.8	B	6.10	B	6.55		******	D	0.0194		0.80		0.63	
JAN 22,87	JAN 21,87	52.0	D	7.7		******	B	5.97		******	D	0.0187	D	0.70		0.30	
JAN 23,87	JAN 22,87	173.0		38.0		4.09		4.14		******		0.0936		0.30		1.20	
JAN 29,87	JAN 28,87	13.0		21.6		******		4.41		******		0.0579		0.90		0.55	
JAN 31,87	JAN 30,87	158.0	D	20.7		4.39		4.42		******	D	0.0603		0.80		0.56	
FEB 2,87	FEB 1,87	152.0		41.3		4.25		4.32		******		0.0784		2.75		1.49	
FEB 3,87	FEB 2,87	69.0		18.3		******		4.52		******		0.0480		1.20		0.53	
FEB 4,87	FEB 3,87	2.0		******		******		******		******		******		******		******	
FEB 6,87	FEB 5,87	230.0	D	10.3		4.77	D	4.81		******	D	0.0307		0.45		0.37	
FEB 7,87	FEB 6,87	50.0		17.7		******	B	6.29		******		0.0244		2.50		0.85	
FEB 9,87	FEB 7,87	750.0		18.6		4.41		4.39		******		0.0583		0.75		0.76	
FEB 10,87	FEB 9,87	2.0		******		******		******		******		******		******		******	
FEB 13,87	FEB 12,87	57.0		5.0		******		4.05		******		0.1070	D	0.95		1.48	
MAR 2,87	FEB 28,87	1147.0		12.1		4.57		4.64		******		0.0433		0.85		0.22	
MAR 26,87	MAR 25,87	433.0		33.0		4.10		4.27		******		0.0901		2.40		0.64	
MAR 27,87	MAR 26,87	47.0		36.0		******	D	4.27		******	D	0.0912		2.70		0.65	
MAR 30,87	MAR 29,87	754.0		39.0		4.05		4.19		******		0.1040		3.40		0.61	
MAR 31,87	MAR 30,87	867.0	D	11.0		4.58		4.61		******		0.0358		0.95		0.12	
APR 1,87	MAR 31,87	301.0		12.0		4.83		4.88		******		0.0257		0.40		0.14	
APR 2,87	APR 1,87	182.0		23.0		4.28		4.41		******		0.0658		0.45		0.65	
APR 3,87	APR 2,87	56.0		40.5		******		4.24		******		0.0980		3.20		0.89	
APR 5,87	APR 4,87	298.0		7.2		4.72		4.88		******		0.0265		0.60	LG	0.08	
APR 6,87	APR 5,87	7.0	LG	3.5		******		5.36		******		0.0213		0.25	<W	0.01	
APR 13,87	APR 12,87	314.0		49.0		3.86		3.98		******		0.1500		5.55		1.11	
APR 22,87	APR 21,87	74.0		33.0		******	UG	6.73		******		0.0233		8.15		1.19	
APR 24,87	APR 23,87	59.0	>	100.0		******	LG	3.43		******	UG	0.4560	UG	18.00		3.15	
APR 28,87	APR 27,87	705.0		12.0		4.56		4.82		******		0.0392		1.20		0.33	
APR 29,87	APR 28,87	101.0	D	5.0		4.78		5.12		******		0.0252	D	0.50	LG	0.07	
APR 30,87	APR 29,87	189.0		46.0	UG	6.68	UG	7.41		******		0.0178		7.05		1.47	
MAY 11,87	MAY 10,87	146.0		36.5		4.30	UG	7.03		******		0.0360		6.65		1.23	
MAY 12,87	MAY 11,87	390.0		36.0		4.14		4.51		******	D	0.0548		5.30		0.88	
MAY 15,87	MAY 14,87	1206.0		39.1		4.07		4.20		******		0.0826		4.65		0.66	
MAY 17,87	MAY 16,87	178.0	D	10.2		4.67		5.50		******		0.0184		1.30		0.23	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
JAN 7,87	JAN 6,87	!IS ******		0.61	!IS	******	!IS	******	!IS	******	!IS	******		0.1259
JAN 9,87	JAN 8,87		0.18	0.16	<T	0.020		0.045		0.090		0.765		0.0347
JAN 10,87	JAN 9,87	<T	0.04	0.11	<T	0.005	<T	0.020		0.030		0.300		0.0288
JAN 11,87	JAN 10,87	<T	0.04	0.06	<W	0.005		0.025		0.040		0.180	UQ	0.0013
JAN 16,87	JAN 15,87		0.14	0.29	<T	0.015	D	0.135		0.080		1.150		0.0776
JAN 18,87	JAN 17,87	<T	0.08	0.12	<T	0.005	<T	0.020		0.025		0.260		0.0170
JAN 19,87	JAN 18,87	<T	0.06	0.14	<T	0.010		0.035		0.045		0.630	UQ	0.0002
JAN 21,87	JAN 20,87	<T	0.10	0.16	<T	0.020	D	0.040		0.060	D	1.100	B	0.0003
JAN 22,87	JAN 21,87		0.14	0.17	B	0.025	D	0.050		0.095	D	0.420	B	0.0011
JAN 23,87	JAN 22,87	<T	0.06	0.22	<T	0.005	<T	0.020		0.025		0.195		0.0724
JAN 29,87	JAN 28,87	<T	0.08	0.21	<T	0.005		0.045		0.095		0.180		0.0389
JAN 31,87	JAN 30,87	<T	0.06	0.11	<T	0.005	<T	0.010		0.025		0.230		0.0380
FEB 2,87	FEB 1,87		0.46	0.34		0.055		0.045		0.150		1.300		0.0479
FEB 3,87	FEB 2,87	<T	0.08	0.11	<T	0.010	<T	0.010		0.040		0.105		0.0302
FEB 4,87	FEB 3,87		******	******		******		******		******		******		******
FEB 6,87	FEB 5,87	<T	0.08	0.16	<T	0.015	<T	0.010	<T	0.020		0.120	D	0.0155
FEB 7,87	FEB 6,87		0.20	0.21		0.025		0.050		0.120		0.395	B	0.0005
FEB 9,87	FEB 7,87		0.16	0.17	<T	0.020	<T	0.010	<T	0.020		0.385		0.0407
FEB 10,87	FEB 9,87		******	******		******		******		******		******		******
FEB 13,87	FEB 12,87		0.22	0.51		0.025	<T	0.020		0.180	D	1.600		0.0891
MAR 2,87	FEB 28,87	<T	0.02	<T 0.04	<T	0.005		0.030	<T	0.015		0.055		0.0229
MAR 26,87	MAR 25,87		0.14	<W 0.01	<T	0.020	D	0.080		0.045		0.260		0.0537
MAR 27,87	MAR 26,87		0.10	<W 0.01	<T	0.010		0.075		0.085		0.450	D	0.0537
MAR 30,87	MAR 29,87		0.18	<W 0.01	<T	0.025		0.050		0.040		0.350		0.0646
MAR 31,87	MAR 30,87	<T	0.02	<W 0.01	<W	0.005	<T	0.010	<T	0.015		0.050		0.0245
APR 1,87	MAR 31,87	<W	0.02	<T 0.02	<T	0.005	<T	0.015		0.025		0.035		0.0132
APR 2,87	APR 1,87	<T	0.04	!IR ******	<W	0.005	<T	0.020	<T	0.020		0.120		0.0389
APR 3,87	APR 2,87		0.12	!IR ******	<T	0.010		0.025		0.060		0.740		0.0575
APR 5,87	APR 4,87	<T	0.02	<T 0.04	<T	0.005	<T	0.015		0.050	<T	0.025		0.0132
APR 6,87	APR 5,87	<T	0.02	<W 0.01	<W	0.005		0.045		0.070	<W	0.005		0.0044
APR 13,87	APR 12,87		0.44	0.23		0.065		0.050		0.035		0.780		0.1047
APR 22,87	APR 21,87		1.92	0.34		0.285	UQ	0.320		0.175		2.550	UQ	0.0002
APR 24,87	APR 23,87		1.06	0.74		0.140		0.170		0.140		1.650	LQ	0.3715
APR 28,87	APR 27,87		0.26	0.26		0.030	D	0.040		0.030		0.200		0.0151
APR 29,87	APR 28,87	<T	0.08	0.28	<T	0.010		0.050		0.050	<T	0.020		0.0076
APR 30,87	APR 29,87	UQ	3.60	0.46		0.725	UQ	0.260		0.275		2.500	UQ	0.0000
MAY 11,87	MAY 10,87		1.54	0.39		0.260	D	0.220	B	0.440		1.730	UQ	0.0001
MAY 12,87	MAY 11,87		1.08	0.23		0.175		0.085		0.090		1.120		0.0309
MAY 15,87	MAY 14,87		0.52	0.14		0.075		0.030	<T	0.010		0.705		0.0631
MAY 17,87	MAY 16,87		0.26	0.06	D	0.050		0.155		0.040	D	0.350		0.0032

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 19,87	MAY 17,87	830	830	1000	1100	1	0.6	1	41984	2	1		46		NZ
MAY 20,87	MAY 19,87	830	730	1900	2000	1	****	1	41985	2	1		****	E	
MAY 22,87	MAY 21,87	700	730	1400	1600	1	17.2	1	41986	2	1		98		
MAY 23,87	MAY 22,87	730	830	700	830	1	0.8	1	41988	2	1		****	E	N
MAY 24,87	MAY 23,87	830	900	830	1000	1	2.6	1	41987	2	1		55		
MAY 27,87	MAY 26,87	700	715	1600	1900	1	11.2	1	41989	2	1		94		T
JUN 1,87	MAY 31,87	815	830	930	1300	1	10.2	1	41990	2	1		96		
JUN 2,87	JUN 1,87	830	730	2100	2200	1	0.8	1	41991	2	1		35		NH
JUN 3,87	JUN 2,87	730	730	2200	2300	1	1.6	1	41992	2	1		81		TN
JUN 4,87	JUN 3,87	730	900	****	****	1	2.4	1	41993	2	1	U	16	G	
JUN 6,87	JUN 7,87	800	745	900	1000	1	16.2	1	41994	2	1		95		
JUN 9,87	JUN 8,87	745	730	745	830	1	16.2	1	41997	2	1		3		NC
JUN 10,87	JUN 9,87	730	715	1000	1130	1	8.8	1	41998	2	1		92		C
JUN 12,87	JUN 11,87	730	745	1600	1900	1	7.4	1	41999	2	1		94		
JUN 19,87	JUN 18,87	730	745	400	500	1	2.6	1	49500	2	1		84		
JUN 23,87	JUN 22,87	730	730	1600	1630	1	0.1	1	49501	2	1		62	E	
JUN 26,87	JUN 25,87	730	730	500	730	1	3.8	1	49502	2	1		96		
JUN 27,87	JUN 26,87	730	800	730	930	1	1.0	1	49503	2	1		60		
JUN 28,87	JUN 27,87	800	800	400	500	1	14.4	1	49504	2	1		104		C
JUN 29,87	JUN 28,87	800	800	500	500	1	4.0	1	49507	2	1		99		
JUN 30,87	JUN 29,87	800	745	800	1000	1	9.8	1	49508	2	1		95		
JUL 4,87	JUL 3,87	745	900	1500	1600	1	6.2	1	49509	2	1		97		
JUL 10,87	JUL 9,87	740	730	1600	1610	1	0.4	1	49510	2	1		****	E	N
JUL 13,87	JUL 12,87	900	720	400	500	1	2.6	1	49511	2	1		79		
JUL 14,87	JUL 13,87	720	740	500	740	1	21.8	1	49512	2	1		100		J
JUL 15,87	JUL 14,87	740	740	740	900	1	4.4	1	49515	2	1		83		JHCN
JUL 20,87	JUL 18,87	745	745	400	600	1	6.4	1	49516	2	1		101		Y2
JUL 27,87	JUL 26,87	900	730	400	500	1	2.8	1	49517	2	1		114		
AUG 3,87	AUG 2,87	800	800	900	1200	1	5.4	1	49519	2	1		100		
AUG 5,87	AUG 4,87	730	730	1000	1100	1	7.6	1	49520	2	1		94		
AUG 8,87	AUG 7,87	730	900	1100	1200	1	2.4	1	49521	2	1		94		
AUG 10,87	AUG 9,87	900	900	1100	1400	1	4.2	1	49522	2	1		88		
AUG 14,87	AUG 13,87	730	745	430	530	1	5.0	1	49524	2	1		102		C
AUG 15,87	AUG 14,87	745	800	400	600	1	24.6	1	49525	2	1		96		
AUG 17,87	AUG 16,87	800	700	400	500	1	1.6	1	49528	2	1		84		
AUG 18,87	AUG 17,87	730	740	1400	1500	1	0.6	1	49529	2	1		41		N
AUG 19,87	AUG 18,87	740	730	400	500	1	2.0	1	49530	2	1		85		
AUG 20,87	AUG 19,87	730	725	400	500	1	1.0	1	49531	2	1		****	GE	
AUG 22,87	AUG 21,87	730	800	600	700	1	14.8	1	49532	2	1		98		
AUG 24,87	AUG 23,87	800	730	1000	1100	1	1.0	1	49533	2	1		63		HCN

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
MAY 19,87	MAY 17,87	18.0		23.7		******	↑CR	******		******		↑CR ******		3.95		0.75	
MAY 20,87	MAY 19,87	1.0		******		******		******		******		******		******		******	
MAY 22,87	MAY 21,87	1086.0		91.0		3.82		3.72		******		0.2250		8.80		1.20	
MAY 23,87	MAY 22,87	******		******		******		******		******		******		******		******	
MAY 24,87	MAY 23,87	92.0		15.0		******		4.60		******		0.0464		1.20		0.25	
MAY 27,87	MAY 26,87	680.0		87.6		3.67		3.61		******		0.2380		9.35		1.03	
JUN 1,87	MAY 31,87	632.0		26.7	D	4.23		4.19		******		0.0765		2.55		0.43	
JUN 2,87	JUN 1,87	18.0		19.8		******		4.26		******		0.0586	D	1.00		0.48	
JUN 3,87	JUN 2,87	84.0	D	70.0		******	D	3.72		******	D	0.1820	D	7.15		1.16	
JUN 4,87	JUN 3,87	25.0		28.3		******		4.17		******		0.0775		2.95		0.45	
JUN 8,87	JUN 7,87	993.0		27.2		4.20		4.27		******		0.0633		2.85		0.70	
JUN 9,87	JUN 8,87	39.0		9.1		******		5.43		******		0.0257		0.90		0.25	
JUN 10,87	JUN 9,87	520.0		8.0	D	4.68		4.97		******		0.0288		0.80	<T	0.03	
JUN 12,87	JUN 11,87	449.0	D	63.0	D	3.80		3.82		******		0.1660		6.50		0.93	
JUN 19,87	JUN 18,87	141.0		90.9		3.71		3.75		******		0.2210		10.00		1.35	
JUN 23,87	JUN 22,87	4.0		******		******		******		******		******		******		******	
JUN 26,87	JUN 25,87	235.0		63.9		3.83		3.85		******	D	0.1730		5.60		1.00	
JUN 27,87	JUN 26,87	39.0		36.3		******		4.19		******		0.0927		4.50		0.40	
JUN 28,87	JUN 27,87	966.0		9.2		4.88		5.10		******		0.0277		0.85		0.15	
JUN 29,87	JUN 28,87	256.0		12.8		4.60	D	4.71		******	D	0.0406		1.10		0.15	
JUN 30,87	JUN 29,87	598.0		28.6		4.17		4.27		******		0.0773		2.65		0.40	
JUL 4,87	JUL 3,87	388.0		53.1		3.93		4.01		******		0.1330		5.80		0.95	
JUL 10,87	JUL 9,87	******		******		******		******		******		******		******		******	
JUL 13,87	JUL 12,87	132.0		30.8		4.10		4.39		******		0.0711		3.70		0.75	
JUL 14,87	JUL 13,87	1405.0		5.6		4.73		5.22		******		0.0227		0.55		0.10	
JUL 15,87	JUL 14,87	235.0		4.5		4.86		5.49		******		0.0211	LQ	0.30		0.10	
JUL 20,87	JUL 18,87	416.0		21.8		4.26		4.46		******		0.0620		2.35		0.40	
JUL 27,87	JUL 26,87	206.0		21.2		4.37		4.36		******		0.0600		2.30		0.35	
AUG 3,87	AUG 2,87	347.0		49.8		******		3.90		******		0.1370		4.60		0.70	
AUG 5,87	AUG 4,87	460.0		15.0		4.50		4.48		******		0.0494		1.50		0.15	
AUG 8,87	AUG 7,87	145.0		57.3		3.92		3.90		******		0.1430		5.10		1.35	
AUG 10,87	AUG 9,87	239.0		10.3		4.45		4.62		******		0.0382		0.75		0.10	
AUG 14,87	AUG 13,87	327.0	>	100.0	LQ	3.46	D	3.51		******	UQ	0.3960	D	10.40		2.35	
AUG 15,87	AUG 14,87	1522.0		58.5		3.78		3.86		******		0.1820		5.45		0.86	
AUG 17,87	AUG 16,87	87.0		42.0		******		4.12		******		0.1210		5.80		0.70	
AUG 18,87	AUG 17,87	16.0		37.5		******		4.11		******		0.1170		4.05		0.63	
AUG 19,87	AUG 18,87	109.0		11.0		4.50		4.70		******		0.0424		0.95		0.23	
AUG 20,87	AUG 19,87	******		******		******		******		******		******		******		******	
AUG 22,87	AUG 21,87	936.0		17.0		4.33		4.51		******		0.0555		1.80		0.32	
AUG 24,87	AUG 23,87	41.0		4.0		******	UQ	5.69		******		0.0184		0.45		0.08	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
MAY 19,87	MAY 17,87	1.10		0.20		0.180		0.075		0.305		0.825	!CR	******	
MAY 20,87	MAY 19,87	******		******		******		******		******		******		******	
MAY 22,87	MAY 21,87	0.24		0.25		0.035		0.050		0.030		0.940		0.1905	
MAY 23,87	MAY 22,87	******		******		******		******		******		******		******	
MAY 24,87	MAY 23,87	<T 0.10	<T	0.05	<T	0.010		0.035	<T	0.015		0.140		0.0251	
MAY 27,87	MAY [illegible],87	0.16		0.22	<T	0.025		0.035		0.030		0.900		0.2455	
JUN 1,87	MAY 31,87	0.10		0.15	<T	0.015		0.055		0.045		0.375		0.0646	
JUN 2,87	JUN 1,87	0.14		0.14	<T	0.015		0.055		0.060		0.060		0.0550	
JUN 3,87	JUN 2,87	0.40	D	0.31		0.070	B	0.285		0.090		0.900	D	0.1905	
JUN 4,87	JUN 3,87	0.16		0.11	<T	0.015		0.040		0.045		0.470		0.0676	
JUN 8,87	JUN 7,87	0.38		0.14		0.065		0.060	<T	0.020		0.685		0.0557	
JUN 9,87	JUN 8,87	0.20		0.16		0.030		0.140		0.080		0.240		0.0037	
JUN 10,87	JUN 9,87	<T 0.08		0.06	<T	0.005	<T	0.015	<T	0.020	<T	0.010		0.0107	
JUN 12,87	JUN 11,87	0.42		0.25		0.075		0.070		0.050		0.530		0.1514	
JUN 19,87	JUN 18,87	1.14		0.35		0.220		0.070		0.055		0.900		0.1778	
JUN 23,87	JUN 22,87	******		******		******		******		******		******		******	
JUN 26,87	JUN 25,87	0.28		0.25		0.050		0.040		0.035		0.305		0.1413	
JUN 27,87	JUN 26,87	!IS ******		0.15	!IS	******	!IS	******	!IS	******		0.575		0.0646	
JUN 28,87	JUN 27,87	0.14	<W	0.01	<T	0.010	<T	0.010	<T	0.005		0.220		0.0079	
JUN 29,87	JUN 28,87	0.12	<W	0.01	<T	0.015	<W	0.005	<T	0.015		0.160	D	0.0195	
JUN 30,87	JUN 29,87	0.18	<T	0.05	<T	0.025	<T	0.015	<W	0.005		0.345		0.0537	
JUL 4,87	JUL 3,87	0.28		0.10		0.045		0.050	<T	0.025		1.050		0.0977	
JUL 10,87	JUL 9,87	******		******		******		******		******		******		******	
JUL 13,87	JUL 12,87	0.72		0.25		0.090		0.100		0.140		0.600		0.0407	
JUL 14,87	JUL 13,87	<T 0.04	<T	0.05	<T	0.005		0.035	<T	0.020		0.095		0.0060	
JUL 15,87	JUL 14,87	<T 0.02		0.10	<T	0.005		0.075		0.060		0.055		0.0032	
JUL 20,87	JUL 18,87	0.38		0.15		0.055		0.060		0.035		0.230		0.0347	
JUL 27,87	JUL 26,87	0.22		0.10		0.035		0.050		0.030		0.325		0.0437	
AUG 3,87	AUG 2,87	0.20		0.10	<T	0.025		0.030	<T	0.015		0.370		0.1259	
AUG 5,87	AUG 4,87	<T 0.06	<T	0.05	<T	0.015		0.035	<T	0.010	D	0.105		0.0331	
AUG 8,87	AUG 7,87	0.92		0.30		0.145		0.065		0.035		0.515		0.1259	
AUG 10,87	AUG 9,87	<T 0.04	<T	0.05	<T	0.005	<T	0.020	<T	0.010	<T	0.005		0.0240	
AUG 14,87	AUG 13,87	D 1.10		0.76	D	0.195		0.050		0.040		0.485	D	0.3090	
AUG 15,87	AUG 14,87	0.28		0.21		0.045		0.030		0.025		0.140		0.1380	
AUG 17,87	AUG 16,87	0.58		0.36		0.130		0.090		0.270		0.585		0.0759	
AUG 18,87	AUG 17,87	0.26		0.28		0.045		0.065		0.085		0.420		0.0776	
AUG 19,87	AUG 18,87	0.12		0.08	<T	0.015		0.040		0.025		0.055		0.0200	
AUG 20,87	AUG 19,87	******		******		******		******		******		******		******	
AUG 22,87	AUG 21,87	0.22	<W	0.01		0.035	<T	0.025	<T	0.015		0.260		0.0309	
AUG 24,87	AUG 23,87	0.10	<W	0.01	<T	0.020		0.035		0.035	LG	0.030	UG	0.0020	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 29,87	AUG 28,87	730	800	400	500	1	1.4	1	49535	2	1	81		
AUG 30,87	AUG 29,87	800	800	1700	1730	1	****	1	49536	2	1	****	E	
AUG 31,87	AUG 30,87	800	740	400	500	1	27.2	1	49537	2	1	100		
SEP 1,87	AUG 31,87	740	740	600	700	1	1.2	1	49540	2	1	52		MM
SEP 2,87	SEP 1,87	740	740	400	500	1	****	1	49541	2	1	****		MM
SEP 8,87	SEP 7,87	800	700	500	600	1	1.4	1	49542	2	1	73		C
SEP 9,87	SEP 8,87	700	730	1800	1900	1	0.8	1	49543	2	1	46	Q	MMM
SEP 20,87	SEP 19,87	900	900	900	1200	1	11.0	1	49545	2	1	79		
SEP 21,87	SEP 20,87	900	700	1200	1400	1	10.0	1	49546	2	1	88		
SEP 22,87	SEP 21,87	700	710	1300	1400	1	1.0	1	49547	2	1	74		
SEP 24,87	SEP 23,87	745	745	2030	100	1	4.2	1	49548	2	1	90		
SEP 28,87	SEP 27,87	830	720	1800	1900	1	4.8	1	49549	2	1	101		
SEP 29,87	SEP 28,87	720	700	500	530	1	0.8	1	49550	2	1	70		
SEP 30,87	SEP 29,87	700	720	1300	1800	1	8.0	1	49551	2	1	104		
OCT 1,87	SEP 30,87	720	720	1700	1830	1	2.0	1	49552	2	1	77		HCM
OCT 2,87	OCT 1,87	720	745	1900	2100	1	10.2	1	49553	2	1	108	C	H
OCT 3,87	OCT 2,87	745	830	1500	1600	1	3.0	1	49554	2	1	85		
OCT 6,87	OCT 5,87	720	730	400	500	1	2.2	1	49555	2	1	97		
OCT 7,87	OCT 6,87	730	720	1730	1830	1	4.4	1	49556	2	1	95	C	J
OCT 8,87	OCT 7,87	720	745	1830	1930	1	****	1	49557	2	1	****		
OCT 10,87	OCT 9,87	715	800	815	930	3	3.8	1	49558	2	1	98		
OCT 12,87	OCT 11,87	800	800	630	800	3	1.0	1	49559	2	1	****	Q	
OCT 13,87	OCT 12,87	800	730	800	1100	3	3.2	1	49560	2	1	68		
OCT 19,87	OCT 17,87	800	745	****	****	1	21.8	1	49561	2	1	97		Y2
OCT 20,87	OCT 19,87	745	745	500	600	1	1.0	1	49564	2	1	65		
OCT 21,87	OCT 20,87	745	730	900	1200	3	4.2	1	49565	2	1	117		
OCT 23,87	OCT 22,87	730	800	300	500	3	6.8	1	49566	2	1	185		MM
OCT 25,87	OCT 24,87	730	800	1400	1700	3	22.6	1	49567	2	1	92		
OCT 28,87	OCT 27,87	800	730	800	1200	1	22.4	1	49568	2	1	99		
OCT 31,87	OCT 30,87	715	800	900	1100	1	1.0	2	49569	2	1	229		M
NOV 3,87	NOV 2,87	730	700	500	700	1	2.6	2	49570	2	1	125		M
NOV 4,87	NOV 3,87	700	730	700	1100	1	2.6	2	49571	2	1	125		M
NOV 5,87	NOV 4,87	730	745	1000	1200	1	3.0	2	49572	2	1	132		M
NOV 6,87	NOV 5,87	745	745	1500	1700	3	1.0	2	49573	2	1	176		M
NOV 7,87	NOV 6,87	745	800	500	700	2	1.0	2	49574	2	1	115		MM
NOV 9,87	NOV 7,87	800	800	900	1200	1	7.0	2	49575	2	1	97		Y2
NOV 12,87	NOV 11,87	715	730	400	500	3	0.1	2	49576	2	1	311		M
NOV 18,87	NOV 17,87	735	730	1700	1830	1	5.4	2	49578	2	1	130		M
NOV 19,87	NOV 18,87	730	745	1000	1300	1	4.4	2	49579	2	1	120		M
NOV 20,87	NOV 19,87	745	750	200	400	3	4.1	2	49580	2	1	105		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 29,87	AUG 28,87	73.0		45.5		######		4.00		######		0.1440		5.65		0.24
AUG 30,87	AUG 29,87	3.0		######		######		######		######		######		######		######
AUG 31,87	AUG 30,87	1745.0		13.0		4.77		4.72		######		0.0425		1.45		0.16
SEP 1,87	AUG 31,87	40.0		5.0		######		5.27		######		0.0231		0.55		0.09
SEP 2,87	SEP 1,87	22.0		5.0		######	UG	5.67		######		0.0184		0.65		0.08
SEP 8,87	SEP 7,87	66.0	>	100.0		######	LG	3.49		######	UG	0.3870	UG	17.15		2.38
SEP 9,87	SEP 8,87	24.0		20.0		######		4.42		######		0.0645		2.45		0.21
SEP 20,87	SEP 19,87	564.0		20.5		4.26		4.39		######		0.0680		1.55		0.29
SEP 21,87	SEP 20,87	565.0		32.0		4.11		4.16		######		0.0947		2.75		0.36
SEP 22,87	SEP 21,87	48.0		17.0		######		4.52		######		0.0530		1.55		0.27
SEP 24,87	SEP 23,87	245.0		14.8		4.45		4.58		######		0.0532		1.85		0.12
SEP 28,87	SEP 27,87	313.0		14.0		4.51		4.69		######		0.0402		1.40		0.27
SEP 29,87	SEP 28,87	36.8	>	100.0		######		3.63		######	!IR	######	>	10.00	>	2.00
SEP 30,87	SEP 29,87	537.0	D	48.0	D	3.96		4.02		######	D	0.1250		5.10		0.55
OCT 1,87	SEP 30,87	99.0		9.4		4.36		4.43		######	D	0.0588		2.05		0.11
OCT 2,87	OCT 1,87	709.0		17.3		4.88		5.24		######		0.0252		2.45		0.60
OCT 3,87	OCT 2,87	164.0		8.9	UG	5.98	UG	6.37		######		0.0187		1.90		0.24
OCT 6,87	OCT 5,87	137.0		39.1		4.10		4.17		######		0.0955		3.35		1.00
OCT 7,87	OCT 6,87	269.0	U	53.4	U	5.99	U	6.76		######	U	0.0227	U	10.95	U	2.18
OCT 8,87	OCT 7,87	13.0		7.0		######		5.01		######		0.0293		0.65		0.24
OCT 10,87	OCT 9,87	239.0		36.0		4.41		4.50		######		0.0638		4.05		1.31
OCT 12,87	OCT 11,87	######		######		######		######		######		######		######		######
OCT 13,87	OCT 12,87	140.0		31.0		4.24		4.30		######		0.0734		2.60		0.68
OCT 19,87	OCT 17,87	1359.0		25.0		4.29		4.33		######		0.0654		2.35		0.40
OCT 20,87	OCT 19,87	42.0	>	100.0		######		3.57		######	UG	0.3070		15.30		2.50
OCT 21,87	OCT 20,87	317.0		79.0		3.71		3.79		######		0.2180		6.75		1.69
OCT 23,87	OCT 22,87	807.0		18.0		4.36		4.42		######		0.0596		1.20		0.59
OCT 25,87	OCT 24,87	1347.0		25.0		4.20		4.28		######		0.0799		1.95		0.71
OCT 28,87	OCT 27,87	1433.0		25.0		4.18		4.24		######		0.0823		2.55		0.37
OCT 31,87	OCT 30,87	147.0		71.0		3.88		3.87		######		0.1730		4.65		3.05
NOV 3,87	NOV 2,87	210.0		35.0		4.03		4.07		######		0.1110		3.30		0.65
NOV 4,87	NOV 3,87	210.0		36.0		4.10		4.14		######		0.1010		3.55		0.98
NOV 5,87	NOV 4,87	254.0		20.8		4.42		4.49		######		0.0574		2.55		0.57
NOV 6,87	NOV 5,87	113.0		8.0		4.80		4.74		######		0.0371		1.50	LG	0.10
NOV 7,87	NOV 6,87	74.0		5.0		######		5.51		######		0.0202		1.00		0.23
NOV 9,87	NOV 7,87	436.0		37.0		######		4.10		######		0.1100		2.65		1.27
NOV 12,87	NOV 11,87	20.0		9.0		######		5.01		######		0.0320		1.25		0.52
NOV 18,87	NOV 17,87	452.0	D	18.0	D	4.35	D	4.43		######	D	0.0571		2.25		0.37
NOV 19,87	NOV 18,87	340.0		7.0		4.79		4.81		######		0.0342		1.05		0.13
NOV 20,87	NOV 19,87	277.0		10.0		4.69		4.71		######		0.0405		0.90		0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIN MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
AUG 29,87	AUG 28,87	0.54		0.16		0.065		0.055		0.065		0.065		0.1000	
AUG 30,87	AUG 29,87	******		******		******		******		******		******		******	
AUG 31,87	AUG 30,87	<T 0.04	<W	0.01	<T	0.005	<T	0.015	<T	0.005		0.225		0.0191	
SEP 1,87	AUG 31,87	<T 0.06	D	0.12	<T	0.010	D	0.075		0.085	LG	0.030		0.0054	
SEP 2,87	SEP 1,87	0.34		0.10		0.045		0.065		0.110		0.055	UG	0.0021	
SEP 8,87	SEP 7,87	1.62		0.50		0.260		0.180		0.085		1.250	LG	0.3236	
SEP 9,87	SEP 8,87	0.48		0.08		0.045		0.065		0.065		0.210		0.0380	
SEP 20,87	SEP 19,87	0.12		0.05	<T	0.020		0.025	<T	0.010		0.055		0.0407	
SEP 21,87	SEP 20,87	<T 0.10	D	0.12	<T	0.005	D	0.060	D	0.055		0.210		0.0692	
SEP 22,87	SEP 21,87	0.16	D	0.31	<T	0.020	D	0.215	D	0.210		0.190		0.0302	
SEP 24,87	SEP 23,87	0.22	<T	0.02		0.035		0.075		0.030		0.150		0.0263	
SEP 28,87	SEP 27,87	0.42	<T	0.02		0.045	D	0.050	<T	0.020		0.115		0.0204	
SEP 29,87	SEP 28,87	!IS ******		0.82	!IS	******	!IS	******	!IS	******	!IS	******		0.2344	
SEP 30,87	SEP 29,87	0.34		0.12		0.040		0.050		0.040		0.475		0.0955	
OCT 1,87	SEP 30,87	0.36	<T	0.03		0.040		0.035		0.040		0.100		0.0372	
OCT 2,87	OCT 1,87	0.72	<T	0.04		0.125		0.070		0.035		0.605		0.0058	
OCT 3,87	OCT 2,87	0.54	<T	0.03		0.105		0.120		0.115		0.325	UG	0.0004	
OCT 6,87	OCT 5,87	0.90		0.14		0.115		0.060		0.055		0.415		0.0676	
OCT 7,87	OCT 6,87	U 2.36	U	0.72	U	0.530	U	0.215	U	2.720	U	1.150	U	0.0002	
OCT 8,87	OCT 7,87	0.20		0.07		0.025	D	0.030	D	0.065		0.080		0.0098	
OCT 10,87	OCT 9,87	1.60		0.27		0.220		0.130		0.075		0.770		0.0316	
OCT 12,87	OCT 11,87	******		******		******		******		******		******		******	
OCT 13,87	OCT 12,87	0.52		0.11		0.065		0.035		0.040		0.425		0.0501	
OCT 19,87	OCT 17,87	0.10	<T	0.04	<T	0.010	<T	0.025	<T	0.015		0.425		0.0468	
OCT 20,87	OCT 19,87	0.58		0.49		0.070		0.165		0.125	!IS	******		0.2692	
OCT 21,87	OCT 20,87	0.18		0.34		0.030		0.050		0.030		0.950		0.1622	
OCT 23,87	OCT 22,87	<T 0.02		0.12	<T	0.010	<T	0.015	<T	0.015		0.195		0.0380	
OCT 25,87	OCT 24,87	0.10		0.14	<T	0.010	<T	0.020	<T	0.010		0.365		0.0525	
OCT 28,87	OCT 27,87	<T 0.02		0.20	<T	0.005	<T	0.020	<T	0.010		0.150		0.0575	
OCT 31,87	OCT 30,87	1.42		0.82		0.210		0.205		0.115		1.250		0.1349	
NOV 3,87	NOV 2,87	0.16		0.24	<T	0.015		0.065		0.070		0.210		0.0851	
NOV 4,87	NOV 3,87	0.24		0.37		0.025		0.130		0.110		0.745		0.0724	
NOV 5,87	NOV 4,87	<T 0.04		0.22	<T	0.010		0.080		0.040		0.715		0.0324	
NOV 6,87	NOV 5,87	0.14	<T	0.01	<T	0.020	D	0.055		0.035	<T	0.020		0.0182	
NOV 7,87	NOV 6,87	0.20		0.25		0.045		0.140		0.090		0.105		0.0031	
NOV 9,87	NOV 7,87	0.26	<T	0.05	<T	0.025		0.070		0.025		0.650		0.0794	
NOV 12,87	NOV 11,87	0.28		0.11		0.050		0.060		0.055		0.475		0.0098	
NOV 18,87	NOV 17,87	0.42		0.40		0.055		0.030		0.225		0.150	D	0.0372	
NOV 19,87	NOV 18,87	<T 0.08		0.05	<T	0.010	<T	0.020	<T	0.015		0.135		0.0155	
NOV 20,87	NOV 19,87	0.20		0.09		0.035		0.030		0.025		0.275		0.0195	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 007 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 22,87	NOV 21,87	730	800	1100	1300	3	****	2	49581	2	1	****		X
NOV 24,87	NOV 23,87	745	730	1030	1400	1	4.4	*	49582	2	1	U 198	P	
NOV 25,87	NOV 24,87	730	730	930	1100	1	****	2	49583	2	1	****		X
NOV 26,87	NOV 25,87	730	730	900	1300	2	17.4	2	49584	2	1	62		CN
NOV 30,87	NOV 29,87	900	745	1000	1400	1	12.2	2	49585	2	1	87		N
DEC 1,87	NOV 30,87	745	730	1400	1500	3	0.8	2	49586	2	1	163		N
DEC 3,87	DEC 2,87	730	730	300	500	2	0.2	2	49587	2	1	850	C	NNN
DEC 9,87	DEC 8,87	730	730	830	1300	1	9.2	2	49589	2	1	79		
DEC 10,87	DEC 9,87	730	800	730	1200	1	14.2	2	49590	2	1	100		
DEC 11,87	DEC 10,87	800	745	800	900	1	1.0	2	49593	2	1	190		NN
DEC 14,87	DEC 12,87	900	730	400	630	3	11.6	2	49594	2	1	91		YZ
DEC 15,87	DEC 14,87	730	730	1000	1100	3	1.0	2	49595	2	1	121		NNN
DEC 16,87	DEC 15,87	730	745	1000	1500	2	21.2	2	49596	2	1	46	C	N
DEC 17,87	DEC 16,87	745	730	300	400	2	****	2	49597	2	1	****		X
DEC 19,87	DEC 18,87	720	800	900	1100	2	2.4	2	49598	2	1	43		N
DEC 21,87	DEC 20,87	800	745	1000	1200	3	15.0	2	49599	2	1	83		
DEC 22,87	DEC 21,87	815	800	900	1200	3	8.4	2	49600	2	1	80		
DEC 23,87	DEC 22,87	815	800	1000	1200	2	3.2	2	49601	2	1	34		N
DEC 24,87	DEC 23,87	800	800	1500	1700	2	0.2	2	49602	2	1	327		N
DEC 26,87	DEC 25,87	900	900	1000	1100	3	4.4	2	49603	2	1	91		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L	NITRATE AS N MG/L
NOV 22,87	NOV 21,87	6.0		******		******		******		******		******		******	******
NOV 24,87	NOV 23,87	560.0		39.0		4.12		4.13		******		0.1040		4.10	1.32
NOV 25,87	NOV 24,87	4.0		******		******		******		******		******		******	******
NOV 26,87	NOV 25,87	692.0	LQ	2.0		4.96		5.07		******		0.0245		0.25	0.11
NOV 30,87	NOV 29,87	685.0		11.0		4.56		4.70		******		0.0410		1.00	0.20
DEC 1,87	NOV 30,87	84.0		20.0		******		4.51		******		0.0582		1.15	0.58
DEC 3,87	DEC 2,87	109.0		5.0	UQ	6.64	B	6.94		******	D	0.0174		0.90	0.14
DEC 9,87	DEC 8,87	466.0		46.0		3.99		3.93		******		0.1280		3.45	0.63
DEC 10,87	DEC 9,87	913.0		28.0		4.29		4.24		******		0.0780		2.60	0.40
DEC 11,87	DEC 10,87	122.0		13.0		4.56		4.66		******		0.0431		1.00	0.29
DEC 14,87	DEC 12,87	678.0		21.0		4.37		4.41		******		0.0633		1.30	0.57
DEC 15,87	DEC 14,87	78.0		6.0		******	UG	6.82		******	D	0.0173		1.10	0.16
DEC 16,87	DEC 15,87	634.0	D	6.5	D	4.91	D	4.97		******		0.0308		0.60	0.31
DEC 17,87	DEC 16,87	1.0		******		******		******		******		******		******	******
DEC 19,87	DEC 18,87	67.0		25.0		******	B	6.74		******	D	0.0218		2.55	1.28
DEC 21,87	DEC 20,87	802.0		11.0		4.65		4.70		******		0.0438		1.00	0.36
DEC 22,87	DEC 21,87	435.0		10.0		4.91		4.98		******		0.0341		0.70	0.47
DEC 23,87	DEC 22,87	70.0		21.0		******		4.52		******		0.0581		0.85	0.97
DEC 24,87	DEC 23,87	42.0		21.0		******	B	7.04		******		0.0215		1.25	1.06
DEC 26,87	DEC 25,87	258.0		27.5		4.24		4.29		******		0.0828		2.20	0.60

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
NOV 22,87	NOV 21,87	******		******		******		******		******		******		******	
NOV 24,87	NOV 23,87	0.60		0.37		0.070		0.075		0.195		1.000		0.0741	
NOV 25,87	NOV 24,87	******		******		******		******		******		******		******	
NOV 26,87	NOV 25,87	<T 0.02	<T	0.01	<T	0.005	<W	0.005	<W	0.005	<T	0.005		0.0085	
NOV 30,87	NOV 29,87	<T 0.04	<T	0.03	<W	0.005	<T	0.010	<T	0.015		0.030		0.0200	
DEC 1,87	NOV 30,87	0.12		0.12	<T	0.010		0.040		0.030		0.215		0.0309	
DEC 3,87	DEC 2,87	<W 0.02		0.05	<W	0.005	<T	0.025		0.025		0.630	B	0.0001	
DEC 9,87	DEC 8,87	0.16		0.47		0.030	D	0.045		0.160		0.145		0.1175	
DEC 10,87	DEC 9,87	<T 0.08		0.14	<T	0.010	<T	0.015		0.045		0.240		0.0575	
DEC 11,87	DEC 10,87	<T 0.04	D	0.07	<W	0.005	D	0.030		0.030		0.075		0.0219	
DEC 14,87	DEC 12,87	<T 0.04		0.09	<T	0.005	<T	0.010	<T	0.015		0.240		0.0389	
DEC 15,87	DEC 14,87	<T 0.02	D	0.06	<W	0.005		0.035		0.025	D	0.660	UG	0.0002	
DEC 16,87	DEC 15,87	<T 0.04	<W	0.01	<W	0.005	<T	0.005	<T	0.010	D	0.210	D	0.0107	
DEC 17,87	DEC 16,87	******		******		******		******		******		******		******	
DEC 19,87	DEC 18,87	0.58		0.68		0.085		0.045		0.205	D	2.150	B	0.0002	
DEC 21,87	DEC 20,87	D 0.20		0.08	<T	0.025	<T	0.005	<T	0.020	D	0.285		0.0200	
DEC 22,87	DEC 21,87	0.20		0.20		0.040	<T	0.010		0.035		0.315		0.0105	
DEC 23,87	DEC 22,87	0.18		0.18		0.030	<T	0.020		0.035		0.585		0.0302	
DEC 24,87	DEC 23,87	<T 0.10		0.24	<T	0.015		0.080		0.075	D	2.350	B	0.0001	
DEC 26,87	DEC 25,87	0.12		0.13	<T	0.015	<T	0.010		0.025		0.435		0.0513	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)		COMMENTS FIELD	COMMENTS OFFICE
JAN 3,87	JAN 2,87	905	900	1800	2200	2	1.4	2	48029	2	1	65			
JAN 7,87	JAN 6,87	900	900	500	900	3	2.2	2	48030	2	1	101			T
JAN 8,87	JAN 7,87	900	900	900	1000	2	****	2	48031	2	1	****		E	
JAN 9,87	JAN 8,87	900	850	900	1230	3	1.2	2	48032	2	1	62			H
JAN 10,87	JAN 9,87	850	900	200	900	2	5.6	2	48033	2	1	41			NC
JAN 11,87	JAN 10,87	900	900	1700	100	2	3.8	2	48034	2	1	27			N
JAN 13,87	JAN 12,87	900	900	930	1130	2	0.4	2	48035	2	1	89			
JAN 15,87	JAN 14,87	900	930	800	930	3	0.6	2	48036	2	1	161			N
JAN 16,87	JAN 15,87	930	900	930	1130	2	0.2	2	48037	2	1	179			N
JAN 18,87	JAN 17,87	930	920	300	900	2	6.2	2	48039	2	1	55			
JAN 19,87	JAN 18,87	920	900	900	1420	2	3.4	2	48040	2	1	76			
JAN 23,87	JAN 22,87	930	850	1830	100	2	3.0	2	48043	2	1	47			NC
JAN 24,87	JAN 23,87	850	900	1600	300	2	6.2	2	48044	2	1	70			C
JAN 25,87	JAN 24,87	900	900	1430	200	2	4.8	2	48045	2	1	23			N
JAN 29,87	JAN 28,87	915	900	1700	100	2	0.3	2	48047	2	1	46		E	N
JAN 30,87	JAN 29,87	900	910	300	900	2	3.2	2	48048	2	1	4			N
JAN 31,87	JAN 30,87	910	900	****	****	2	9.4	2	48049	2	1	15			N
FEB 2,87	FEB 1,87	900	910	****	****	2	1.6	2	48050	2	1	62			N
FEB 3,87	FEB 2,87	910	900	1230	500	2	4.4	2	48051	2	1	79		C	
FEB 4,87	FEB 3,87	900	900	1120	500	2	****	2	48052	2	1	****		E	
FEB 5,87	FEB 4,87	900	900	920	1000	2	1.2	2	48053	2	1	41			N
FEB 7,87	FEB 6,87	915	915	1700	100	2	2.4	2	48055	2	1	50			
FEB 8,87	FEB 7,87	915	900	200	900	2	4.7	2	48056	2	1	53			
FEB 9,87	FEB 8,87	900	900	900	2130	2	6.6	2	48057	2	1	52			
FEB 10,87	FEB 9,87	900	900	600	900	2	0.6	2	48058	2	1	36			N
FEB 13,87	FEB 12,87	910	915	1830	2300	2	0.6	2	48060	2	1	70		C	
FEB 23,87	FEB 22,87	915	915	1640	2000	2	1.0	2	48065	2	1	70			HCN
MAR 1,87	FEB 28,87	915	920	1230	920	1	10.2	2	48066	2	1	90			C
MAR 2,87	MAR 1,87	920	900	1315	900	3	17.0	2	48067	2	1	74			
MAR 3,87	MAR 2,87	900	910	900	1230	2	1.6	2	48070	2	1	12	U	GE	
MAR 4,87	MAR 3,87	910	900	900	1030	2	0.2	2	48071	2	1	15		E	N
MAR 26,87	MAR 25,87	920	900	2100	900	1	5.5	2	48074	2	1	98			
MAR 27,87	MAR 26,87	900	900	1540	2350	1	1.5	2	48075	2	1	133			N
MAR 28,87	MAR 27,87	900	900	1300	2330	1	0.4	2	48076	2	1	195			NHCN
MAR 30,87	MAR 29,87	900	900	100	900	1	7.3	2	48077	2	1	110			
MAR 31,87	MAR 30,87	900	905	1900	900	3	24.4	2	48078	2	1	64			
APR 1,87	MAR 31,87	900	900	900	2300	2	13.0	2	48079	2	1	41			NC
APR 2,87	APR 1,87	900	900	1830	200	2	4.5	2	48080	2	1	9			N
APR 3,87	APR 2,87	900	900	1600	1230	2	0.7	2	48081	2	1	35			N
APR 5,87	APR 4,87	900	900	900	330	3	11.0	2	48083	2	1	109			C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 3,87	JAN 2,87	59.0		6.1		******		4.87		******		0.0284		<T 0.15		0.24	
JAN 7,87	JAN 6,87	143.0		92.2	LQ	3.72		3.66		******		0.2140		D 6.45		2.82	
JAN 8,87	JAN 7,87	1.0		******		******		******		******		******		******		******	
JAN 9,87	JAN 8,87	48.0		36.4		******		4.71		******		0.0437		6.55		0.99	
JAN 10,87	JAN 9,87	148.0	LQ	1.5		4.81		4.89		******		0.0321		0.70		0.51	
JAN 11,87	JAN 10,87	66.0		32.0		******		4.10		******		0.0872		1.65		0.76	
JAN 13,87	JAN 12,87	23.0		22.9		******		4.26		******		0.0654		2.10		0.18	
JAN 15,87	JAN 14,87	62.0	>	100.0		******	LG	3.52		******	UQ	0.3290		6.60		2.90	
JAN 16,87	JAN 15,87	23.0		42.8		******		4.15		******		0.0880		2.25		1.73	
JAN 18,87	JAN 17,87	219.0		12.6		4.52		4.52		******		0.0426		<T 0.05		0.40	
JAN 19,87	JAN 18,87	167.0		11.4		4.54		4.58		******		0.0401		<T 0.10		0.30	
JAN 23,87	JAN 22,87	91.0		24.3		******		4.06		******		0.0933		0.40		1.08	
JAN 24,87	JAN 23,87	281.0		4.0	UQ	5.06		5.29		******		0.0196		<T 0.15	LQ	0.05	
JAN 25,87	JAN 24,87	71.0		8.8		******		4.90		******		0.0288		0.40		0.23	
JAN 29,87	JAN 28,87	9.0		******		******		******		******		******		******		******	
JAN 30,87	JAN 29,87	9.0		8.0		******		4.87		******		0.0297		<T 0.10		0.20	
JAN 31,87	JAN 30,87	95.0		38.8		******		4.05		******		0.0973		1.60		0.82	
FEB 2,87	FEB 1,87	64.0		62.0		******		3.94		******		0.1360		3.25		1.97	
FEB 3,87	FEB 2,87	225.0		24.1		******		4.36		******		0.0599		1.50		0.72	
FEB 4,87	FEB 3,87	1.0		******		******		******		******		******		******		******	
FEB 5,87	FEB 4,87	32.0		6.3		******	UQ	6.15		******		0.0170		0.80		0.16	
FEB 7,87	FEB 6,87	78.0		28.6		******		4.42		******		0.0568		2.25		0.95	
FEB 8,87	FEB 7,87	162.0		39.8		4.24		4.26		******		0.0759		2.05		1.58	
FEB 9,87	FEB 8,87	221.0		40.3		4.28		4.30		******		0.0705		3.05		1.43	
FEB 10,87	FEB 9,87	14.0		14.0		******		4.89		******		0.0323		0.75		0.64	
FEB 13,87	FEB 12,87	27.0		23.0		******	D	4.44		******		0.0550		0.80		0.90	
FEB 23,87	FEB 22,87	45.0	>	100.0		******	LG	3.42		******	UQ	0.4710		5.85		2.51	
MAR 1,87	FEB 28,87	594.0		12.8		4.53		4.70		******		0.0403		0.75		0.21	
MAR 2,87	MAR 1,87	817.0		25.8		4.24		4.32		******		0.0702		1.35		0.48	
MAR 3,87	MAR 2,87	13.0		******		******		******		******		******		******		******	
MAR 4,87	MAR 3,87	2.0		******		******		******		******		******		******		******	
MAR 26,87	MAR 25,87	346.0		41.0		4.05		4.20		******		0.1020		2.85		0.82	
MAR 27,87	MAR 26,87	128.0		50.0		3.98		4.01		******		0.1320		3.25		1.09	
MAR 28,87	MAR 27,87	50.0	>	100.0		******		3.59		******	UQ	0.3060		8.80		2.56	
MAR 30,87	MAR 29,87	519.0		48.0		3.98		4.03		******		0.1290		3.90		0.84	
MAR 31,87	MAR 30,87	1005.0		14.3		4.45		4.53		******		0.0499		1.15		0.16	
APR 1,87	MAR 31,87	344.0		6.2		4.85		5.00		******		0.0312		0.30	LQ	0.09	
APR 2,87	APR 1,87	28.0		24.5		******		4.31		******		0.0730		D 1.15		0.61	
APR 3,87	APR 2,87	16.0		14.0		******		4.67		******		0.0439		0.65		0.39	
APR 5,87	APR 4,87	775.0		7.5		4.77		4.95		******		0.0312		0.45	LQ	0.08	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 3,87	JAN 2,87	0.12	0.09	<T 0.010	<T 0.010	0.045	<T 0.010	0.0135
JAN 7,87	JAN 6,87	0.44	0.45	0.060	0.075	0.140	1.900	0.2188
JAN 8,87	JAN 7,87	******	******	******	******	******	******	******
JAN 9,87	JAN 8,87	2.00	0.46	0.100	0.085	0.280	1.280	0.0195
JAN 10,87	JAN 9,87	0.60	0.08	<T 0.015	<T 0.010	0.030	0.125	0.0129
JAN 11,87	JAN 10,87	0.10	0.20	<T 0.005	0.030	0.070	0.185	0.0794
JAN 13,87	JAN 12,87	<T 0.10	0.09	<T 0.010	<T 0.015	0.045	0.055	0.0550
JAN 15,87	JAN 14,87	0.42	0.94	0.035	0.140	0.245	!AD ******	LG 0.3020
JAN 16,87	JAN 15,87	!IS ******	0.24	!IS ******	!IS ******	!IS ******	1.330	0.0708
JAN 18,87	JAN 17,87	<T 0.08	0.10	<T 0.005	<T 0.005	0.025	<T 0.010	0.0302
JAN 19,87	JAN 18,87	<T 0.02	0.10	<W 0.005	<W 0.005	<T 0.005	<T 0.020	0.0263
JAN 23,87	JAN 22,87	<T 0.08	0.20	<T 0.010	0.025	0.040	0.110	0.0871
JAN 24,87	JAN 23,87	<T 0.04	0.12	<T 0.010	<T 0.015	0.060	<T 0.015	0.0051
JAN 25,87	JAN 24,87	0.18	0.13	<T 0.025	0.040	0.095	0.035	0.0126
JAN 29,87	JAN 28,87	******	******	******	******	******	******	******
JAN 30,87	JAN 29,87	!IS ******	0.08	!IS ******	!IS ******	!IS ******	!IR ******	0.0135
JAN 31,87	JAN 30,87	<T 0.08	0.13	<T 0.005	<T 0.015	0.040	0.200	0.0891
FEB 2,87	FEB 1,87	1.00	0.92	0.105	0.215	0.550	0.775	0.1148
FEB 3,87	FEB 2,87	0.22	0.13	<T 0.015	0.025	0.080	0.525	0.0437
FEB 4,87	FEB 3,87	******	******	******	******	******	******	******
FEB 5,87	FEB 4,87	0.52	0.22	<T 0.020	<T 0.020	0.125	0.060	UQ 0.0007
FEB 7,87	FEB 6,87 D	0.40	0.21	0.040	0.035	0.090	0.850	0.0380
FEB 8,87	FEB 7,87	0.48	0.38	0.065	0.030	0.115	1.050	0.0550
FEB 9,87	FEB 8,87	0.24	0.27	0.035	0.045	0.060	1.550	0.0501
FEB 10,87	FEB 9,87	0.50	0.17	0.070	0.040	0.110	0.210	0.0129
FEB 13,87	FEB 12,87	0.68	0.33	D 0.050	0.035	0.245	0.085	D 0.0363
FEB 23,87	FEB 22,87	0.86	UG 1.65	0.100	0.035	0.275	0.210	LG 0.3802
MAR 1,87	FEB 28,87	<T 0.02	<W 0.01	<W 0.005	<W 0.005	<T 0.015	0.055	0.0200
MAR 2,87	MAR 1,87	<W 0.02	<T 0.04	<W 0.005	<W 0.005	<T 0.015	0.110	0.0479
MAR 3,87	MAR 2,87	******	******	******	******	******	******	******
MAR 4,87	MAR 3,87	******	******	******	******	******	******	******
MAR 26,87	MAR 25,87	0.14	<W 0.01	<T 0.020	<T 0.020	0.050	0.500	0.0631
MAR 27,87	MAR 26,87	0.16	<T 0.04	<T 0.010	<T 0.020	0.060	0.705	0.0977
MAR 28,87	MAR 27,87	2.20	0.93	0.240	0.065	0.240	1.750	0.2570
MAR 30,87	MAR 29,87	0.22	<W 0.01	<T 0.025	<T 0.025	0.045	0.670	0.0933
MAR 31,87	MAR 30,87	<T 0.02	<W 0.01	<W 0.005	<T 0.005	<T 0.015	0.035	0.0295
APR 1,87	MAR 31,87	<T 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.020	<T 0.015	0.0100
APR 2,87	APR 1,87	0.12	<W 0.01	<T 0.010	0.025	D 0.065	0.100	0.0490
APR 3,87	APR 2,87	0.28	0.21	0.035	0.035	0.095	<T 0.005	0.0214
APR 5,87	APR 4,87	<T 0.02	<W 0.01	<T 0.005	<T 0.005	0.025	<T 0.010	0.0112

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM 805 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.		PRECIP START/END HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 6,87	APR 5,87	900	900	1330	1500	1	0.2	2	48084	2	1	85		
APR 7,87	APR 6,87	900	900	1420	1500	1	****	2	48085	2	1	****	E	
APR 15,87	APR 14,87	900	900	2300	130	1	0.4	2	48086	2	1	253		N
APR 22,87	APR 21,87	900	900	1900	1940	1	****	1	48087	2	1	****	E	
APR 24,87	APR 23,87	900	915	825	1130	1	0.7	1	48088	2	1	62		C
APR 28,87	APR 27,87	900	910	1600	2100	1	7.6	1	48090	2	1	98		J
APR 29,87	APR 28,87	910	915	900	1400	1	6.8	1	48091	2	1	93		HN
APR 30,87	APR 29,87	915	900	2000	2300	1	6.4	1	48092	2	1	95		J
MAY 11,87	MAY 10,87	900	910	****	****	1	9.8	1	48094	2	1	104		JH
MAY 12,87	MAY 11,87	910	900	1230	1530	1	4.6	1	48095	2	1	100		JHC
MAY 15,87	MAY 14,87	900	910	1530	1700	1	20.6	1	48096	2	1	100		
MAY 19,87	MAY 18,87	900	900	****	****	1	0.2	1	48099	2	1	****	E	N
MAY 22,87	MAY 21,87	900	900	200	500	1	4.2	1	48100	2	1	101		
MAY 23,87	MAY 22,87	900	900	10	230	1	0.8	1	48101	2	1	52		
MAY 24,87	MAY 23,87	900	900	900	1500	1	1.6	1	48102	2	1	68		
MAY 25,87	MAY 24,87	900	900	900	900	1	0.4	1	48103	2	1	****	E	N
MAY 27,87	MAY 26,87	800	900	1140	1530	1	3.0	1	48104	2	1	98		TC
MAY 28,87	MAY 27,87	900	900	1230	1315	1	0.2	1	48105	2	1	54		
JUN 1,87	MAY 31,87	900	900	1020	1215	1	1.2	1	48106	2	1	84		TC
JUN 2,87	JUN 1,87	915	900	525	830	1	4.0	1	48107	2	1	99		
JUN 4,87	JUN 3,87	900	910	1245	1400	1	1.6	1	48108	2	1	85		
JUN 6,87	JUN 5,87	910	915	900	1215	1	2.0	1	48109	2	1	84		JH
JUN 7,87	JUN 6,87	915	900	2340	300	1	1.6	1	48110	2	1	91		H
JUN 8,87	JUN 7,87	900	900	400	900	1	12.8	1	48111	2	1	100		J
JUN 9,87	JUN 8,87	900	900	900	1000	1	0.2	1	48114	2	1	116		
JUN 10,87	JUN 9,87	900	900	1090	103	1	****	2	48115	2	1	0		N
JUN 12,87	JUN 11,87	900	900	1530	1930	1	9.2	1	48116	2	1	100		
JUN 15,87	JUN 12,87	900	930	****	****	1	0.2	1	48117	2	1	62		
JUN 14,87	JUN 13,87	930	920	100	600	1	1.0	1	48118	2	1	74		
JUN 23,87	JUN 22,87	900	900	1000	1500	1	3.0	1	48120	2	1	97		X
JUN 26,87	JUN 25,87	900	900	320	820	1	4.0	1	48121	2	1	97		
JUN 27,87	JUN 26,87	900	900	1000	1730	1	0.4	1	48122	2	1	66		
JUN 28,87	JUN 27,87	900	900	1150	1230	1	5.8	1	48123	2	1	94		
JUN 29,87	JUN 28,87	900	900	530	900	1	6.0	1	48124	2	1	96		C
JUN 30,87	JUN 29,87	900	900	900	1200	1	15.0	1	48125	2	1	104		C
JUL 3,87	JUL 2,87	900	900	1930	2100	1	1.4	1	48128	2	1	81		C
JUL 4,87	JUL 3,87	900	900	1740	2000	1	13.6	1	48129	2	1	100		H
JUL 7,87	JUL 6,87	900	900	1900	2030	1	18.2	1	48132	2	1	99	B	
JUL 8,87	JUL 7,87	900	900	2015	2300	1	7.6	1	48133	2	1	101		HN
JUL 9,87	JUL 8,87	900	920	1751	1900	1	0.2	1	48134	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 6,87	APR 5,87	11.0	D	11.0		******		4.77		******	D	0.0384	D	1.05		0.12
APR 7,87	APR 6,87	2.0		******		******		******		******		******		******		******
APR 15,87	APR 14,87	65.0		61.0		******		3.94		******		0.1660		8.35		1.29
APR 22,87	APR 21,87	1.0		******		******		******		******		******		******		******
APR 24,87	APR 23,87	28.0	>	100.0		******	LG	3.51		******	UG	0.3900	UG	14.00		3.05
APR 28,87	APR 27,87	482.0		20.0	UG	5.67	UG	6.76		******		0.0179		2.85		1.20
APR 29,87	APR 28,87	406.0		9.0		4.56		4.76		******		0.0378		1.20	LG	0.06
APR 30,87	APR 29,87	390.0		9.0		4.49	UG	6.12		******		0.0167		2.45		0.23
MAY 11,87	MAY 10,87	654.0		50.0		4.10		4.79		******		0.0759		7.55		1.51
MAY 12,87	MAY 11,87	297.0		44.0		4.04		4.51		******		0.0829		6.35		0.67
MAY 15,87	MAY 14,87	1322.0		45.0		4.15		4.24		******		0.0874		7.00		1.00
MAY 19,87	MAY 18,87	******		******		******		******		******		******		******		******
MAY 22,87	MAY 21,87	273.0		87.0		3.70		3.66		******		0.2260		8.30		1.20
MAY 23,87	MAY 22,87	27.0	D	75.0		******	D	3.95		******		0.1380		7.50		2.70
MAY 24,87	MAY 23,87	70.0		32.0		******		4.22		******		0.0798		3.20		0.65
MAY 25,87	MAY 24,87	******		******		******		******		******		******		******		******
MAY 27,87	MAY 26,87	189.0	>	100.0	LG	3.46	LG	3.41		******	UG	0.3850		16.50		1.80
MAY 28,87	MAY 27,87	7.0	D	39.5		******	D	4.03		******	D	0.1040	D	3.50		0.79
JUN 1,87	MAY 31,87	65.0	>	100.0		******	D	3.52		******	B	0.2910		10.75		1.58
JUN 2,87	JUN 1,87	254.0		36.9		4.06		4.08		******		0.0966		3.25		0.81
JUN 4,87	JUN 3,87	88.0		27.2		******		4.29		******		0.0659		3.15		0.54
JUN 6,87	JUN 5,87	108.0		9.6		4.69		5.29		******		0.0251		1.30		0.16
JUN 7,87	JUN 6,87	94.0		37.4		******		4.22		******	D	0.0763		4.70		1.13
JUN 8,87	JUN 7,87	827.0		12.8		4.77	UG	6.19		******		0.0223		1.60		0.45
JUN 9,87	JUN 8,87	15.0		10.7		******		4.89		******		0.0300		1.05		0.13
JUN 10,87	JUN 9,87	5.0	D	23.0	LG	******	<=>	4.40		******	D	0.0664	D	2.15		0.11
JUN 12,87	JUN 11,87	595.0		57.1		3.85		3.89		******		0.1520		6.65		0.77
JUN 13,87	JUN 12,87	8.0		11.2		******		5.19		******		0.0286		1.15		0.34
JUN 14,87	JUN 13,87	48.0		21.9		******		4.44		******		0.0631		2.05		0.36
JUN 23,87	JUN 22,87	187.0		******		******		******		******		******		******		******
JUN 26,87	JUN 25,87	249.0	>	100.0	D	3.63	D	3.63		******		******	D	9.40		1.70
JUN 27,87	JUN 26,87	17.0		32.0		******		4.29		******		0.0801		4.70		0.30
JUN 28,87	JUN 27,87	352.0		16.6		4.47		4.64		******		0.0428		1.00		0.40
JUN 29,87	JUN 28,87	373.0	LG	0.3		4.19		4.31		******		0.0733		3.35		0.65
JUN 30,87	JUN 29,87	1008.0	LG	0.6		4.01		4.04		******		0.1230		7.65		1.15
JUL 3,87	JUL 2,87	73.0	LG	0.3		******		4.23		******		0.0843		2.20		0.60
JUL 4,87	JUL 3,87	874.0		20.1		4.41		4.58		******		0.0490		2.20		0.25
JUL 7,87	JUL 6,87	1161.0		64.8		3.81		3.83		******		0.1760		6.70		0.65
JUL 8,87	JUL 7,87	494.0		14.6		4.43		4.63		******		0.0418		0.60		0.20
JUL 9,87	JUL 8,87	******		******		******		******		******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM 805 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
APR 6,87	APR 5,87	D 0.12	<T	0.03	<T	0.010		0.025		0.090	<T	0.015		0.0170
APR 7,87	APR 6,87	******		******		******		******		******		******		******
APR 15,87	APR 14,87	1.42		0.32		0.165		0.055		0.140		0.800		0.1148
APR 22,87	APR 21,87	******		******		******		******		******		******		******
APR 24,87	APR 23,87	D 2.00		0.99	D	0.205		0.205	D	0.350		0.790	LG	0.3090
APR 28,87	APR 27,87	1.96		0.65		0.455		0.070		0.080		0.580	UG	0.0002
APR 29,87	APR 28,87	0.26	<W	0.01		0.035	<T	0.005		0.025		0.035		0.0174
APR 30,87	APR 29,87	0.84		0.22		0.145		0.050		0.040		0.260	UG	0.0008
MAY 11,87	MAY 10,87	1.58		0.31		0.270		0.105		0.055		1.800		0.0162
MAY 12,87	MAY 11,87	0.88		0.21		0.110		0.040		0.040		1.060		0.0309
MAY 15,87	MAY 14,87	1.38		0.24		0.230		0.125		0.025		1.080		0.0575
MAY 19,87	MAY 18,87	******		******		******		******		******		******		******
MAY 22,87	MAY 21,87	0.26		0.21	<T	0.020		0.045		0.075		0.600		0.2188
MAY 23,87	MAY 22,87	D 1.28		0.37	D	0.225		0.130	D	0.225		2.450	D	0.1122
MAY 24,87	MAY 23,87	0.24		0.15	<T	0.015		0.070		0.125		0.685		0.0603
MAY 25,87	MAY 24,87	******		******		******		******		******		******		******
MAY 27,87	MAY 26,87	0.48		0.35		0.035		0.070		0.090		1.200	LG	0.3890
MAY 28,87	MAY 27,87	D 0.38	D	0.34	D	0.045	D	0.075	D	0.165	D	0.385	D	0.0933
JUN 1,87	MAY 31,87	0.54		0.36		0.070		0.050		0.150		0.850	D	0.3020
JUN 2,87	JUN 1,87	0.32		0.17		0.050		0.030		0.035		0.560		0.0832
JUN 4,87	JUN 3,87	D 0.58		0.12		0.030		0.035		0.060		0.410		0.0513
JUN 6,87	JUN 5,87	0.40		0.08		0.035	<T	0.025		0.050		0.235		0.0051
JUN 7,87	JUN 6,87	1.16		0.24		0.160		0.065		0.075		1.050		0.0603
JUN 8,87	JUN 7,87	0.38		0.10		0.065		0.035	<T	0.015		0.765	UG	0.0006
JUN 9,87	JUN 8,87	<=> 0.20	D	0.62	<=>	0.020		0.040	UG	0.430		0.145		0.0129
JUN 10,87	JUN 9,87	0.26	D	0.77	D	0.030	D	0.075	B	0.525		0.110	<=>	0.0398
JUN 12,87	JUN 11,87	0.68		0.22		0.095		0.040		0.045		0.395		0.1288
JUN 13,87	JUN 12,87	0.20		0.21		0.030		0.075		0.220		0.340		0.0065
JUN 14,87	JUN 13,87	0.42		0.10		0.060		0.045		0.135		0.175		0.0363
JUN 23,87	JUN 22,87	******		******		******		******		******		******		******
JUN 26,87	JUN 25,87	******		******		0.060		0.045		0.055	D	0.750	D	0.2344
JUN 27,87	JUN 26,87	!IS ******	<W	0.01	!IS	******	!IS	******	!IS	******		0.720		0.0513
JUN 28,87	JUN 27,87	0.14	<T	0.05		0.030	<T	0.020		0.025		0.295		0.0229
JUN 29,87	JUN 28,87	0.42	<W	0.01		0.095	<T	0.025		0.040		0.610		0.0490
JUN 30,87	JUN 29,87	1.38		0.15		0.240		0.040		0.040		0.730		0.0912
JUL 3,87	JUL 2,87	0.44	<T	0.05		0.030		0.045		0.135		0.155		0.0589
JUL 4,87	JUL 3,87	0.24	<T	0.05		0.035	<T	0.010	<T	0.020		0.460		0.0263
JUL 7,87	JUL 6,87	0.16	<T	0.05	<T	0.015	<T	0.020	<T	0.020		0.300		0.1479
JUL 8,87	JUL 7,87	<W 0.02	<T	0.05	<W	0.005	<T	0.015		0.025		0.160		0.0234
JUL 9,87	JUL 8,87	******		******		******		******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM 805 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 14,87	JUL 13,87	900	920	100	920	1	24.8	1	48136	2	1	55		
JUL 15,87	JUL 14,87	920	900	920	1315	1	2.8	1	48137	2	1	93		
JUL 20,87	JUL 19,87	900	900	2230	730	1	13.6	1	48138	2	1	102		
JUL 30,87	JUL 29,87	900	900	2230	200	1	2.8	1	48140	2	1	87		
AUG 3,87	AUG 2,87	915	915	1200	1630	1	6.0	1	48141	2	1	95		J
AUG 8,87	AUG 7,87	900	900	1600	1800	1	3.0	1	48142	2	1	92		
AUG 10,87	AUG 9,87	900	900	830	1400	1	9.8	1	48143	2	1	102		M
AUG 15,87	AUG 14,87	900	830	600	830	1	0.5	1	48144	2	1	62		HCM
AUG 17,87	AUG 16,87	830	900	1950	2010	1	0.2	1	48145	2	1	116		
AUG 18,87	AUG 17,87	900	900	925	935	1	3.2	1	48146	2	1	98		
AUG 22,87	AUG 21,87	900	850	400	700	1	5.2	1	48147	2	1	106		
AUG 26,87	AUG 25,87	850	900	1010	1054	1	0.8	1	48148	2	1	89		
AUG 27,87	AUG 26,87	900	800	****	****	1	****	1	48149	2	1	****	E	
AUG 29,87	AUG 28,87	910	900	400	650	1	1.8	1	48150	2	1	88		M
AUG 31,87	AUG 30,87	900	820	200	700	1	9.0	1	48152	2	1	101		
SEP 1,87	AUG 31,87	820	900	1500	1600	1	2.2	1	48153	2	1	90		
SEP 2,87	SEP 1,87	900	900	1656	1705	1	0.3	1	48154	2	1	52	Q	C
SEP 9,87	SEP 8,87	800	800	1030	1630	1	6.8	1	48156	2	1	64		
SEP 10,87	SEP 9,87	800	900	900	1130	1	0.8	1	48157	2	1	74		T
SEP 12,87	SEP 11,87	800	800	2118	2230	1	4.8	1	48158	2	1	101		
SEP 14,87	SEP 13,87	900	900	1817	1930	1	2.5	1	48159	2	1	87		
SEP 17,87	SEP 16,87	900	900	500	900	1	1.3	1	48161	2	1	73		
SEP 18,87	SEP 17,87	900	900	2100	****	1	6.8	1	48162	2	1	95		
SEP 19,87	SEP 18,87	900	910	900	930	1	1.0	1	48163	2	1	84		
SEP 20,87	SEP 19,87	910	900	1400	2200	1	9.6	1	48164	2	1	104		
SEP 21,87	SEP 20,87	900	900	1130	1210	1	7.6	1	48165	2	1	97		
SEP 22,87	SEP 21,87	900	915	1050	1230	1	3.8	1	48166	2	1	96		
SEP 26,87	SEP 25,87	900	900	830	845	1	****	1	48168	2	1	****		C
SEP 28,87	SEP 27,87	900	900	630	930	1	4.3	1	48169	2	1	97		
SEP 30,87	SEP 29,87	900	910	1500	2200	1	16.0	1	48170	2	1	83		M
OCT 1,87	SEP 30,87	910	900	1940	1230	1	6.6	1	48173	2	1	93		C
OCT 2,87	OCT 1,87	900	900	2030	300	1	5.4	1	48174	2	1	97	CD	
OCT 3,87	OCT 2,87	900	900	1630	1735	1	1.6	1	48175	2	1	85		
OCT 6,87	OCT 5,87	900	900	2215	2230	1	0.1	1	48176	2	1	62		
OCT 8,87	OCT 7,87	900	900	1320	2230	1	9.4	1	48177	2	1	94		M
OCT 10,87	OCT 9,87	810	830	745	900	1	2.0	1	48179	2	1	87		
OCT 13,87	OCT 12,87	830	900	1400	1430	1	0.2	1	48180	2	1	109		
OCT 18,87	OCT 17,87	900	900	1430	1500	1	4.8	1	48181	2	1	95		
OCT 19,87	OCT 18,87	900	900	845	920	1	0.2	1	48182	2	1	****	E	N
OCT 20,87	OCT 19,87	900	830	****	****	1	0.3	1	48183	2	1	93		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM 805 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JUL 14,87	JUL 13,87	881.0		8.9		4.73		5.05		******		0.0270		0.95		0.20
JUL 15,87	JUL 14,87	167.0		7.3		4.71		4.91		******	D	0.0308		0.40		0.15
JUL 20,87	JUL 19,87	894.0		14.0		4.43		4.63		******		0.0443		1.25		0.25
JUL 30,87	JUL 29,87	157.0		27.7		4.64		4.85		******		0.0356		4.20		1.20
AUG 3,87	AUG 2,87	366.0		40.4	D	4.71		4.02		******		0.1120		4.20		0.55
AUG 8,87	AUG 7,87	177.0		50.8		4.07		4.12		******		0.1030		6.60		1.30
AUG 10,87	AUG 9,87	646.0		12.2		4.48		4.54		******		0.0440		0.95		0.10
AUG 15,87	AUG 14,87	20.0	>	100.0		******	B	3.41		******	B	0.4870	>	10.00	>	2.00
AUG 17,87	AUG 16,87	15.0		29.5		******		4.40		******		0.0710		4.30		0.69
AUG 18,87	AUG 17,87	202.0		19.0		******		4.59		******		0.0494		2.95		0.43
AUG 22,87	AUG 21,87	354.0		27.5		4.16		4.31		******		0.0802		2.75		0.54
AUG 26,87	AUG 25,87	46.0	!LA	******		******	!LA	******		******	!LA	******	!LA	******	!LA	******
AUG 27,87	AUG 26,87	3.0		******		******		******		******		******		******		******
AUG 29,87	AUG 28,87	102.0		25.0		4.34		4.48		******	B	0.4570		3.50		0.49
AUG 31,87	AUG 30,87	588.0		30.0		4.27		4.23		******		0.0846		3.35		0.46
SEP 1,87	AUG 31,87	128.0		4.5		5.06		5.31		******		0.0274		0.60		0.11
SEP 2,87	SEP 1,87	10.0		4.0		******	UQ	5.78		******		0.0167		0.35	<T	0.04
SEP 9,87	SEP 8,87	282.0		27.0		4.23		4.28		******		0.0687		2.10		0.38
SEP 10,87	SEP 9,87	38.0	!IS	******		******		4.15		******		0.0632	!IS	******	!IS	******
SEP 12,87	SEP 11,87	311.0		89.0		3.72		3.73		******		0.2110		8.40		0.79
SEP 14,87	SEP 13,87	140.0		55.0		3.97		4.01		******		0.1230		4.90		0.90
SEP 17,87	SEP 16,87	61.0		47.0		******		4.00		******		0.1240		4.70		0.37
SEP 18,87	SEP 17,87	416.0		70.7		3.80		3.82		******		0.1800		7.70		0.57
SEP 19,87	SEP 18,87	54.0		20.3		******		4.40		******		0.0605		1.70		0.28
SEP 20,87	SEP 19,87	640.0		31.7		4.11		4.14		******		0.0963		2.40		0.36
SEP 21,87	SEP 20,87	476.0		27.7		4.19		4.24		******		0.0803		2.30		0.32
SEP 22,87	SEP 21,87	234.0		34.1		4.16		4.21		******		0.0882		3.10		0.53
SEP 26,87	SEP 25,87	6.0		6.5		******		5.25		******		0.0232		0.85		0.08
SEP 28,87	SEP 27,87	270.0		28.0		4.18		4.30		******		0.0746		2.80		0.45
SEP 30,87	SEP 29,87	852.0		36.6		4.16		4.23		******		0.0866		5.00		0.54
OCT 1,87	SEP 30,87	397.0		9.9		4.67		4.87		******		0.0429		0.75	<T	0.05
OCT 2,87	OCT 1,87	337.0		41.6	UQ	6.48	UQ	7.02		******		0.0224		7.80		1.65
OCT 3,87	OCT 2,87	88.0		10.9		******	UQ	7.11		******		0.0170		1.55		0.12
OCT 6,87	OCT 5,87	4.0		******		******		******		******		******		******		******
OCT 8,87	OCT 7,87	570.0		10.7	D	4.60		4.67		******		0.0391		0.45		0.32
OCT 10,87	OCT 9,87	112.0		56.5		4.18		4.31		******		0.0895		6.85		2.25
OCT 13,87	OCT 12,87	14.0	D	17.0		******	D	5.43		******	D	0.0264		1.95		0.74
OCT 18,87	OCT 17,87	295.0	D	34.0	D	4.15	D	4.15		******	D	0.0921	D	3.10		0.64
OCT 19,87	OCT 18,87	******		******		******		******		******		******		******		******
OCT 20,87	OCT 19,87	18.0		30.0		******		4.28		******		0.0804		2.90		0.79

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM 005 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JUL 14,87	JUL 13,87		0.12		0.10	<T	0.025		0.035		0.035		0.175		0.0089
JUL 15,87	JUL 14,87	<T	0.04	<T	0.05	<T	0.005	<T	0.010		0.040	LG	0.030		0.0123
JUL 20,87	JUL 19,87		0.12	<T	0.05		0.025	<T	0.010		0.025		0.135		0.0234
JUL 30,87	JUL 29,87		1.94		0.30		0.450		0.095		0.120		0.315		0.0141
AUG 3,87	AUG 2,87		0.26		0.10		0.035		0.030		0.035		0.440		0.0955
AUG 8,87	AUG 7,87		1.58		0.30		0.195		0.065		0.060	D	1.050		0.0759
AUG 10,87	AUG 9,87	<T	0.04	<W	0.01	<T	0.005	<W	0.005	<W	0.005	<T	0.020		0.0288
AUG 15,87	AUG 14,87	D	1.34	D	0.74	D	0.205	D	0.105	D	0.300	D	1.150	B	0.3890
AUG 17,87	AUG 16,87		0.96		0.47		0.110		0.080		0.225		0.495		0.0398
AUG 18,87	AUG 17,87		0.40		0.13	D	0.055		0.040		0.060		0.585		0.0257
AUG 22,87	AUG 21,87	D	0.46	D	0.10		0.040		0.045		0.030		0.360		0.0490
AUG 26,87	AUG 25,87	!LA	******	!LA	******	!LA	******	!LA	******	!LA	******	!LA	******	!LA	******
AUG 27,87	AUG 26,87		******		******		******		******		******		******		******
AUG 29,87	AUG 28,87		1.60		0.16		0.115		0.045		0.055	<W	0.005		0.0331
AUG 31,87	AUG 30,87		0.30		0.19		0.035		0.045	<T	0.015		0.480		0.0589
SEP 1,87	AUG 31,87		0.14	<W	0.01	<T	0.010		0.030	<T	0.025		0.070		0.0049
SEP 2,87	SEP 1,87		0.12		0.12	<T	0.015		0.070		0.115	LG	0.040	UG	0.0017
SEP 9,87	SEP 8,87	<W	0.02		0.08	<W	0.005	<W	0.005	<T	0.010		0.100		0.0525
SEP 10,87	SEP 9,87		0.10	!IS	******	<T	0.015		0.045		0.045		0.405		0.0708
SEP 12,87	SEP 11,87		0.24		0.18	<T	0.015	<T	0.025	<T	0.005		0.465		0.1862
SEP 14,87	SEP 13,87		0.30		0.25		0.030		0.045	D	0.050		0.625		0.0977
SEP 17,87	SEP 16,87		0.30		0.15		0.030		0.065		0.080		0.070		0.1000
SEP 18,87	SEP 17,87		0.42		0.12		0.035		0.040		0.035		0.450		0.1514
SEP 19,87	SEP 18,87		0.24		0.06	<T	0.020		0.035		0.050		0.070		0.0398
SEP 20,87	SEP 19,87	<T	0.06	<T	0.04	<W	0.005	<T	0.025	<T	0.020		0.125		0.0724
SEP 21,87	SEP 20,87	<T	0.06	<T	0.02	<W	0.005		0.025	<T	0.010		0.155		0.0575
SEP 22,87	SEP 21,87		0.22		0.09		0.025		0.075		0.050		0.430		0.0617
SEP 26,87	SEP 25,87		0.16		0.08		0.030		0.045		0.080	LG	0.035		0.0056
SEP 28,87	SEP 27,87		0.42		0.07		0.045		0.035	<T	0.025		0.330		0.0501
SEP 30,87	SEP 29,87		1.08		0.19		0.115		0.030		0.025		0.695		0.0589
OCT 1,87	SEP 30,87	<W	0.02	<T	0.02	<T	0.005	<W	0.005	<T	0.010	LG	0.040		0.0135
OCT 2,87	OCT 1,87		3.06		0.26		0.415	UG	0.290		0.190		1.550	UG	0.0001
OCT 3,87	OCT 2,87	D	1.04		0.20		0.075		0.040		0.040		0.380	UG	0.0001
OCT 6,87	OCT 5,87		******		******		******		******		******		******		******
OCT 8,87	OCT 7,87	<T	0.02	<W	0.01	<W	0.005	<W	0.005	<W	0.005	LG	0.040		0.0214
OCT 10,87	OCT 9,87		3.04		0.62		0.285		0.230		0.185		1.000		0.0490
OCT 13,87	OCT 12,87		0.82	D	0.37		0.095	D	0.120	D	0.185		0.595	D	0.0037
OCT 18,87	OCT 17,87	D	0.44		0.11	D	0.035	<T	0.020	<T	0.025	D	0.435	D	0.0708
OCT 19,87	OCT 18,87		******		******		******		******		******		******		******
OCT 20,87	OCT 19,87		0.42		0.17		0.045		0.060		0.080	!IS	******		0.0525

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 21,87	OCT 20,87	830	900	1430	1900	1	1.8	1	48184	2	1	90		
OCT 23,87	OCT 22,87	900	900	1715	500	1	11.4	1	48185	2	1	100		
OCT 25,87	OCT 24,87	900	900	30	300	1	18.0	1	48186	2	1	94		
OCT 27,87	OCT 26,87	900	900	****	****	1	0.3	1	48189	2	1	208		N
OCT 28,87	OCT 27,87	900	900	900	1630	1	8.4	1	48190	2	1	99		
OCT 29,87	OCT 28,87	900	900	700	900	1	****	2	48191	2	1	****		X
OCT 30,87	OCT 29,87	900	900	900	1000	1	0.5	2	48192	2	1	209		N
OCT 31,87	OCT 30,87	900	900	900	1130	1	0.3	2	48193	2	1	254		N
NOV 3,87	NOV 2,87	900	900	400	900	1	6.4	2	48194	2	1	107		
NOV 4,87	NOV 3,87	900	900	900	1330	1	2.4	2	48195	2	1	139		NC
NOV 5,87	NOV 4,87	900	900	1415	2300	1	8.6	2	48196	2	1	113		C
NOV 6,87	NOV 5,87	900	900	1130	1400	3	0.8	2	48197	2	1	167		NNCN
NOV 7,87	NOV 6,87	900	900	1330	2130	2	9.6	2	48198	2	1	94		
NOV 8,87	NOV 7,87	900	900	300	900	1	4.0	2	48199	2	1	109		
NOV 9,87	NOV 8,87	900	900	1600	200	1	10.8	2	48200	2	1	101		
NOV 12,87	NOV 11,87	900	900	730	900	2	1.0	2	48201	2	1	82		
NOV 18,87	NOV 17,87	900	900	1300	100	1	4.8	2	48204	2	1	137		N
NOV 19,87	NOV 18,87	900	900	1600	2000	3	0.5	2	48205	2	1	215		NM
NOV 20,87	NOV 19,87	900	900	1700	1900	3	2.3	2	48206	2	1	100		JH
NOV 24,87	NOV 23,87	900	900	1000	1030	1	0.2	2	48208	2	1	577		N
NOV 26,87	NOV 25,87	900	900	900	1230	2	35.2	2	48210	2	1	21		N
NOV 29,87	NOV 28,87	900	1000	100	1000	1	9.8	2	48211	2	1	96		
NOV 30,87	NOV 29,87	1000	900	1000	1830	1	6.8	2	48212	2	1	89		
DEC 1,87	NOV 30,87	900	910	1700	100	1	****	2	48213	2	1	****		X
DEC 2,87	DEC 1,87	910	900	2000	2330	2	0.2	2	48214	2	1	****	E	N
DEC 8,87	DEC 7,87	900	900	600	900	1	0.6	2	48217	2	1	143		N
DEC 9,87	DEC 8,87	900	900	900	1300	1	5.4	2	48218	2	1	111		
DEC 10,87	DEC 9,87	900	900	930	1230	1	3.0	2	48220	2	1	122		N
DEC 11,87	DEC 10,87	900	900	1230	1400	1	****	2	48221	2	1	****		X
DEC 12,87	DEC 11,87	900	900	430	830	2	1.8	2	48222	2	1	111		
DEC 13,87	DEC 12,87	900	900	430	730	2	6.6	2	48223	2	1	78		NN
DEC 16,87	DEC 15,87	900	900	900	1500	2	24.4	2	48225	2	1	U 25	F	
DEC 17,87	DEC 16,87	900	900	930	1130	2	0.2	2	48226	2	1	****	E	N
DEC 19,87	DEC 18,87	900	900	2130	2230	2	2.4	2	48227	2	1	37		N
DEC 20,87	DEC 19,87	900	900	100	900	3	17.1	2	48228	2	1	57		
DEC 21,87	DEC 20,87	900	900	900	1400	1	4.0	2	48229	2	1	111		
DEC 22,87	DEC 21,87	900	900	920	1030	2	0.1	*	48230	2	1	****	E	N
DEC 23,87	DEC 22,87	900	900	1030	1210	2	1.0	2	48231	2	1	56		
DEC 25,87	DEC 24,87	900	900	1030	1500	1	10.2	2	48233	2	1	99		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM 805 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
OCT 21,87	OCT 20,87	104.0		83.0		3.69		3.77		******		0.2290		6.80		1.88	
OCT 23,87	OCT 22,87	736.0		24.0		4.25		4.33		******		0.0746		1.60		0.75	
OCT 25,87	OCT 24,87	1096.0		36.0		4.05		4.16		******		0.1070		3.00		0.93	
OCT 27,87	OCT 26,87	40.0		20.0		******		4.36		******		0.0734		2.10		0.43	
OCT 28,87	OCT 27,87	537.0		30.0		4.12		4.21		******		0.0971		3.30		0.43	
OCT 29,87	OCT 28,87	3.0		******		******		******		******		******		******		******	
OCT 30,87	OCT 29,87	67.0		43.0		******		4.36		******		0.0788		4.05		2.43	
OCT 31,87	OCT 30,87	49.0	D	83.0		******		3.84		******		0.1970	D	5.25	UG	3.57	
NOV 3,87	NOV 2,87	440.0		45.0		4.02		4.11		******		0.1100		3.45		0.66	
NOV 4,87	NOV 3,87	214.0		10.0		4.35		4.44		******		0.0604		2.40		0.51	
NOV 5,87	NOV 4,87	627.0	D	4.0		4.63		4.80		******	D	0.0361	D	1.55		0.30	
NOV 6,87	NOV 5,87	86.0	LG	3.0		******		5.04		******		0.0256		1.05	LG	0.07	
NOV 7,87	NOV 6,87	580.0	!LA	******	UG	5.11	!LA	******		******	!LA	******	!LA	******	!LA	******	
NOV 8,87	NOV 7,87	280.0		16.0		4.47		4.55		******		0.0473		1.25		0.39	
NOV 9,87	NOV 8,87	703.0		19.0		4.36		4.41		******		0.0598		1.55		0.47	
NOV 12,87	NOV 11,87	53.0		23.0		******		4.43		******		0.0576		1.55		0.85	
NOV 18,87	NOV 17,87	424.0		27.0		4.19		4.31		******		0.0835		2.20		0.55	
NOV 19,87	NOV 18,87	69.0		8.0		******	B	7.06		******		0.0155		1.15		0.17	
NOV 20,87	NOV 19,87	148.0		18.0	B	5.61	B	6.43		******	D	0.0206	D	2.10		1.20	
NOV 24,87	NOV 23,87	74.0	D	56.0		******		4.22		******		0.1180	D	7.25		2.00	
NOV 26,87	NOV 25,87	474.0		5.0		4.92		4.95		******		0.0238	LG	0.20		0.14	
NOV 29,87	NOV 28,87	608.0	D	6.5		4.71		4.79		******		0.0327		0.70		0.17	
NOV 30,87	NOV 29,87	392.0		18.0		4.32		4.36		******		0.0642		1.25		0.41	
DEC 1,87	NOV 30,87	7.0		******		******		******		******		******		******		******	
DEC 2,87	DEC 1,87	******		******		******		******		******		******		******		******	
DEC 8,87	DEC 7,87	55.0		28.0		******		4.31		******		0.0794		2.40		0.44	
DEC 9,87	DEC 8,87	387.0	D	38.0		4.03		4.17		******	D	0.1040		2.85		0.49	
DEC 10,87	DEC 9,87	236.0		26.0		4.29		4.33		******		0.0769		2.50		0.21	
DEC 11,87	DEC 10,87	2.0		******		******		******		******		******		******		******	
DEC 12,87	DEC 11,87	129.0		43.0		4.06		4.15		******		0.1110		2.00		1.27	
DEC 13,87	DEC 12,87	334.0		8.5		4.82		4.97		******		0.0297		0.85		0.23	
DEC 16,87	DEC 15,87	393.0		20.0		4.34		4.38		******		0.0700		0.85		0.57	
DEC 17,87	DEC 16,87	******		******		******		******		******		******		******		******	
DEC 19,87	DEC 18,87	58.0		47.0		******		4.11		******		0.1150		2.20		1.44	
DEC 20,87	DEC 19,87	627.0		14.5		4.44		4.51		******		0.0517		0.95		0.31	
DEC 21,87	DEC 20,87	286.0		20.5		4.31		4.35		******		0.0690		1.60		0.26	
DEC 22,87	DEC 21,87	******		******		******		******		******		******		******		******	
DEC 23,87	DEC 22,87	36.0		33.0		******		4.20		******		0.0931		1.30		1.21	
DEC 25,87	DEC 24,87	608.0		18.0		4.38		4.42		******		0.0651		1.15		0.31	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
OCT 21,87	OCT 20,87	0.58		0.36		0.070		0.050		0.035		0.595		0.1698	
OCT 23,87	OCT 22,87	0.20		0.12	<T	0.025	<T	0.010	<T	0.010		0.250		0.0468	
OCT 25,87	OCT 24,87	0.34		0.22		0.035		0.045	<T	0.025		0.430		0.0692	
OCT 27,87	OCT 26,87	0.24		0.26	<T	0.020		0.025		0.040		0.125		0.0437	
OCT 28,87	OCT 27,87	0.16		0.19	<T	0.010	<T	0.015	<T	0.015		0.305		0.0617	
OCT 29,87	OCT 28,87	******		******		******		******		******		******		******	
OCT 30,87	OCT 29,87	2.24		0.73		0.325	D	0.210	D	0.140		1.100		0.0437	
OCT 31,87	OCT 30,87	1.86		0.56		0.260		0.160		0.130		1.400		0.1445	
NOV 3,87	NOV 2,87	D 0.10		0.19	<T	0.015	<T	0.020		0.045		0.365		0.0776	
NOV 4,87	NOV 3,87	0.20		0.22	<T	0.020		0.030		0.050		0.465		0.0363	
NOV 5,87	NOV 4,87	<T 0.10		0.07	<T	0.010	<T	0.020		0.025		0.340		0.0158	
NOV 6,87	NOV 5,87	0.14	<T	0.01	<T	0.005	<T	0.010		0.025	<T	0.005		0.0091	
NOV 7,87	NOV 6,87	!LA ******	!LA	******	!LA	******	!LA	******	!LA	******	!LA	******	!LA	******	
NOV 8,87	NOV 7,87	<T 0.04	<T	0.01	<T	0.010	<T	0.015	<T	0.020		0.200		0.0282	
NOV 9,87	NOV 8,87	<W 0.02		0.11	<T	0.010	<T	0.015	<T	0.010		0.285		0.0389	
NOV 12,87	NOV 11,87	0.30		0.15		0.030		0.040		0.080		0.430		0.0372	
NOV 18,87	NOV 17,87	0.12		0.29		0.030	<T	0.010		0.150		0.240		0.0490	
NOV 19,87	NOV 18,87	D 1.08		0.06	<T	0.020	<T	0.010	<T	0.020		0.215	B	0.0001	
NOV 20,87	NOV 19,87	D 1.38	D	0.26	D	0.130		0.040	D	0.045	D	0.830	B	0.0004	
NOV 24,87	NOV 23,87	2.24	D	1.13		0.250		0.135	B	0.670	D	1.500		0.0603	
NOV 26,87	NOV 25,87	<T 0.02		0.05	<W	0.005	<T	0.010	<T	0.025	<W	0.005		0.0112	
NOV 29,87	NOV 28,87	<T 0.08		0.07	<T	0.010	<T	0.020		0.040		0.080		0.0162	
NOV 30,87	NOV 29,87	<T 0.06		0.05	<T	0.005	<T	0.005	<T	0.005		0.050		0.0437	
DEC 1,87	NOV 30,87	******		******		******		******		******		******		******	
DEC 2,87	DEC 1,87	******		******		******		******		******		******		******	
DEC 8,87	DEC 7,87	0.24		0.22	<T	0.020		0.075		0.100		0.060		0.0490	
DEC 9,87	DEC 8,87	0.12		0.46		0.030	<T	0.015		0.210	D	0.075		0.0676	
DEC 10,87	DEC 9,87	<T 0.06		0.16	<T	0.010	<T	0.010		0.055		0.075		0.0468	
DEC 11,87	DEC 10,87	******		******		******		******		******		******		******	
DEC 12,87	DEC 11,87	0.14		0.18	<T	0.010	<T	0.020		0.055		0.490		0.0708	
DEC 13,87	DEC 12,87	<T 0.02	D	0.06	<T	0.005	<T	0.015		0.030		0.170		0.0107	
DEC 16,87	DEC 15,87	<T 0.10		0.15	<T	0.010	D	0.030		0.055		0.085		0.0417	
DEC 17,87	DEC 16,87	******		******		******		******		******		******		******	
DEC 19,87	DEC 18,87	0.94		1.01		0.145		0.025		0.350		0.130		0.0776	
DEC 20,87	DEC 19,87	<T 0.06		0.08	<T	0.005	<T	0.005	<T	0.020		0.060		0.0309	
DEC 21,87	DEC 20,87	<T 0.04		0.11	<W	0.005	<T	0.010	<T	0.020		0.100		0.0447	
DEC 22,87	DEC 21,87	******		******		******		******		******		******		******	
DEC 23,87	DEC 22,87	0.12		0.25	<T	0.010	<T	0.015		0.045		0.490		0.0631	
DEC 25,87	DEC 24,87	<T 0.04		0.08	<W	0.005	<T	0.005	<T	0.015		0.125		0.0380	

PART IV

NORTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 20,87	JAN 19,87	1600	1600	****	****	2	5.8	2	31543	2	1		70		
JAN 22,87	JAN 21,87	1600	1600	****	****	2	1.0	2	31545	2	1		93		
JAN 30,87	JAN 29,87	1600	1600	****	****	2	6.0	2	31547	2	1		62		C
FEB 1,87	JAN 31,87	1600	1600	****	****	2	0.6	2	31549	2	1		****	EK	
FEB 2,87	FEB 1,87	1600	1600	****	****	2	0.2	2	31551	2	1		****	EK	
FEB 8,87	FEB 7,87	1600	1600	****	****	2	0.2	2	31553	2	1		****	EK	
FEB 10,87	FEB 9,87	1600	1600	****	****	2	0.2	2	31555	2	1		****	EK	
FEB 12,87	FEB 11,87	1600	1600	****	****	2	3.0	2	31557	2	1		24		N
FEB 16,87	FEB 15,87	1600	1600	****	****	2	0.4	2	31559	2	1		66		N
MAR 1,87	FEB 28,87	1600	1600	****	****	2	8.2	2	31561	2	1		52		N
MAR 2,87	MAR 1,87	1600	1600	****	****	2	2.2	2	31563	2	1		53		C
MAR 26,87	MAR 25,87	1600	1600	****	****	2	2.2	2	31566	2	1		61		
APR 27,87	APR 26,87	1600	1600	****	****	1	5.8	1	31570	2	1		112	Q	
MAY 8,87	MAY 7,87	1600	1600	****	****	1	1.4	1	31572	2	1		64		N
MAY 12,87	MAY 11,87	1600	1600	****	****	1	1.0	1	31574	2	1		84	Q	NN
MAY 14,87	MAY 13,87	1600	1600	****	****	1	1.8	1	31576	2	1		117	C	
MAY 17,87	MAY 16,87	1600	1600	****	****	1	11.0	1	31578	2	1		98		
MAY 19,87	MAY 18,87	1600	1600	****	****	1	4.6	1	31580	2	1		86		
MAY 21,87	MAY 20,87	1600	1600	****	****	1	16.6	1	31582	2	1		95		
MAY 22,87	MAY 21,87	1600	1600	****	****	1	4.6	1	31586	2	1		23		N
MAY 28,87	MAY 24,87	1600	1600	****	****	1	5.4	1	31588	2	1		42		N
JUN 2,87	JUN 1,87	1600	1600	****	****	1	9.2	1	31590	2	1		93		
JUN 4,87	JUN 3,87	1600	1600	****	****	1	9.4	1	31592	2	1		98		NCN
JUN 7,87	JUN 6,87	1600	1600	****	****	1	4.4	1	31594	2	1	U	83	EQ	
JUN 22,87	JUN 21,87	1600	1600	1000	****	1	****	1	31596	2	1		4		N
JUN 25,87	JUN 24,87	1600	1600	1000	****	1	****	1	31597	2	1		7		NNN
JUL 2,87	JUL 1,87	1600	1600	****	****	1	34.4	1	31599	2	1		99		
JUL 3,87	JUL 2,87	1600	1600	****	****	1	0.1	1	32919	2	1		****	EK	
JUL 11,87	JUL 10,87	1600	1600	****	****	1	4.2	1	32920	2	1		57		
JUL 12,87	JUL 11,87	1600	1600	****	****	1	20.8	1	32922	2	1		101		
JUL 17,87	JUL 16,87	1600	1600	****	****	1	1.2	1	32901	2	1		52		
JUL 18,87	JUL 17,87	1600	1600	****	****	1	4.6	1	32903	2	1		99		
JUL 19,87	JUL 18,87	1600	1600	****	****	1	16.4	1	32905	2	1		99		
JUL 22,87	JUL 21,87	1600	1600	****	****	1	11.4	1	32907	2	1		94		
JUL 23,87	JUL 22,87	1600	1600	****	****	1	2.0	1	32909	2	1		53		
JUL 29,87	JUL 28,87	1600	1600	****	****	1	12.0	1	32911	2	1		94		NN
AUG 2,87	AUG 1,87	1600	1600	****	****	1	39.0	1	32913	2	1		102		
AUG 3,87	AUG 2,87	1600	1600	****	****	1	0.8	1	32915	2	1		****	EK	
AUG 10,87	AUG 9,87	1600	1600	****	****	1	16.8	1	32927	2	1		94		
AUG 12,87	AUG 11,87	1600	1600	****	****	1	66.0	1	32929	2	1		88		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAMSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 20,87	JAN 19,87	263.0		7.7		******		4.91		******		0.0298		0.75		0.20	
JAN 22,87	JAN 21,87	60.0		6.3		******		5.04		******		0.0250		0.30		0.15	
JAN 30,87	JAN 29,87	240.0		10.4		******		4.85		******		0.0295		0.45		0.20	
FEB 1,87	JAN 31,87	******		******		******		******		******		******		******		******	
FEB 2,87	FEB 1,87	******		******		******		******		******		******		******		******	
FEB 8,87	FEB 7,87	******		******		******		******		******		******		******		******	
FEB 10,87	FEB 9,87	******		******		******		******		******		******		******		******	
FEB 12,87	FEB 11,87	48.0		19.2		******		5.85		******		0.0229		2.25		0.97	
FEB 16,87	FEB 15,87	17.0		7.6		******		4.98		******		0.0293		1.00	LG	0.06	
MAR 1,87	FEB 28,87	278.0		13.6		******		4.74		******		0.0380		0.90		0.55	
MAR 2,87	MAR 1,87	76.0		7.3		******		5.33		******		0.0363		0.35	<T	0.03	
MAR 26,87	MAR 25,87	87.0	UG	95.6		******	LG	3.69		******	UG	0.2430	UG	11.20	UG	1.29	
APR 27,87	APR 26,87	418.0		17.8		******	UG	6.83		******		0.0230		2.35		0.40	
MAY 8,87	MAY 7,87	58.0		15.7		******		6.31		******		0.0241		2.50		0.50	
MAY 12,87	MAY 11,87	54.0		16.7		******		5.99		******		0.0370		3.30		0.17	
MAY 14,87	MAY 13,87	135.0		25.1		******		6.80		******		0.0223		3.50		0.87	
MAY 17,87	MAY 16,87	693.0		8.2		******		6.25		******		0.0159		1.10		0.25	
MAY 19,87	MAY 18,87	255.0		20.9		******		4.27		******	UG	0.0611		2.55		0.10	
MAY 21,87	MAY 20,87	1021.0		14.3		******		4.69		******		0.0356		1.45		0.30	
MAY 22,87	MAY 21,87	68.0		8.2		******	ICR	******		******	ICR	******		0.80		0.10	
MAY 25,87	MAY 24,87	146.0	UG	30.6		******		4.16		******	UG	0.0819		2.95		0.30	
JUN 2,87	JUN 1,87	552.0	U	90.4		******	U	7.48		******	U	0.0304	U	3.45	U	0.45	
JUN 4,87	JUN 3,87	594.0		7.1		******		5.30		******		0.0216		0.90		0.10	
JUN 7,87	JUN 6,87	235.0		******		******		******		******		******		******		******	
JUN 22,87	JUN 21,87	273.0	UG	41.0		******	UG	7.15		******		0.0349	UG	6.15		0.90	
JUN 25,87	JUN 24,87	465.0		6.5		******		5.22		******		0.0260		0.80		0.17	
JUL 2,87	JUL 1,87	2189.0		5.5		******		5.14		******		0.0256		0.45		0.10	
JUL 3,87	JUL 2,87	******		******		******		******		******		******		******		******	
JUL 11,87	JUL 10,87	156.0		23.5		******		4.55		******	UG	0.0571		2.65		0.64	
JUL 12,87	JUL 11,87	1351.0		9.0		******		4.93		******		0.0309		0.70		0.16	
JUL 17,87	JUL 16,87	40.0		11.0		******		5.08		******		0.0345		1.15		0.49	
JUL 18,87	JUL 17,87	293.0		14.0		******		4.77		******		0.0459		1.80		0.37	
JUL 19,87	JUL 18,87	1051.0		12.0		******		4.78		******		0.0501		1.60		0.16	
JUL 22,87	JUL 21,87	691.0		7.0		******		5.04		******		0.0346		0.80		0.19	
JUL 23,87	JUL 22,87	68.0		25.0		******		4.95		******		0.0403		4.15		1.11	
JUL 29,87	JUL 28,87	727.0		6.5		******		4.99		******		0.0374		0.55		0.11	
AUG 2,87	AUG 1,87	2566.0		8.0		******		4.95		******		0.0321		0.80		0.18	
AUG 3,87	AUG 2,87	******		******		******		******		******		******		******		******	
AUG 10,87	AUG 9,87	1019.0		4.0		******		5.59		******		0.0200		0.55		0.09	
AUG 12,87	AUG 11,87	3133.0		7.0		******		5.78		******		0.0271		1.30		0.15	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIN MG/L		POTASSIN MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JAN 20,87	JAN 19,87	<T	0.04	0.10		<T	0.010	<T	0.010	0.035		0.180		0.0123	
JAN 22,87	JAN 21,87	<T	0.06	0.17		<T	0.010	<T	0.020	0.065		<T	0.025	0.0091	
JAN 30,87	JAN 29,87	<T	0.08	0.10		<T	0.010	<T	0.005	0.035		0.035		0.0141	
FEB 1,87	JAN 31,87		******	******			******		******	******		******		******	
FEB 2,87	FEB 1,87		******	******			******		******	******		******		******	
FEB 8,87	FEB 7,87		******	******			******		******	******		******		******	
FEB 10,87	FEB 9,87		******	******			******		******	******		******		******	
FEB 12,87	FEB 11,87		0.48	0.29			0.090		0.030	0.150		1.250		0.0014	
FEB 16,87	FEB 15,87		0.22	0.14			0.025	<T	0.020	0.095		0.080		0.0105	
MAR 1,87	FEB 28,87		0.70	0.17			0.095	<T	0.015	0.050		0.115		0.0182	
MAR 2,87	MAR 1,87	<T	0.03	0.14		<T	0.005	<W	0.005	0.100		0.035		0.0047	
MAR 26,87	MAR 25,87		0.86	0.43			0.100		0.130	UG	0.410	0.950		LG	0.2042
APR 27,87	APR 26,87		0.64	0.15			0.130	UG	0.235		0.140	1.050		UG	0.0001
MAY 6,87	MAY 7,87		0.94	0.16			0.160		0.160		0.145	0.660			0.0005
MAY 12,87	MAY 11,87		0.60	0.26			0.120	UG	0.545		0.160	0.930			0.0010
MAY 14,87	MAY 13,87		1.30	0.16			0.250		0.175		0.145	1.300			0.0002
MAY 17,87	MAY 16,87		0.26	<T	0.05		0.055		0.025	<T	0.010	0.385			0.0006
MAY 19,87	MAY 18,87		0.30	<W	0.01		0.030	<T	0.020	<T	0.015	0.075			0.0537
MAY 21,87	MAY 20,87	<W	0.02	0.10		<T	0.005	B	0.055		0.050	0.410			0.0204
MAY 22,87	MAY 21,87	<W	0.02	<T	0.05	<W	0.005	<T	0.010	UG	0.270	0.060		!CR	******
MAY 25,87	MAY 24,87		0.12	<T	0.05	<T	0.010		0.035	<T	0.020	0.105			0.0692
JUN 2,87	JUN 1,87	U	0.88	U	8.90	U	0.130	U	1.600	U	15.800	U	2.500	U	0.0000
JUN 4,87	JUN 3,87		0.12	0.10		<T	0.015	<T	0.020		0.060	0.080			0.0050
JUN 7,87	JUN 6,87		******	******			******		******		******	******			******
JUN 22,87	JUN 21,87		0.19	0.72			0.075	UG	0.820	UG	0.300	3.750		UG	0.0001
JUN 25,87	JUN 24,87		0.28	<W	0.01		0.060		0.035		0.170	0.140			0.0060
JUL 2,87	JUL 1,87	<T	0.06	0.04		<T	0.010	<T	0.015	<T	0.020	0.055			0.0072
JUL 3,87	JUL 2,87		******	******			******		******		******	******			******
JUL 11,87	JUL 10,87	B	0.50	D	0.26	B	0.055	D	0.090		0.165	0.465			0.0282
JUL 12,87	JUL 11,87	<T	0.02	0.09		<W	0.005		0.030		0.070	0.130			0.0117
JUL 17,87	JUL 16,87		0.46	0.13			0.065		0.075		0.065	!IS	******		0.0083
JUL 18,87	JUL 17,87		0.48	0.22			0.060		0.075		0.125	0.270			0.0170
JUL 19,87	JUL 18,87		0.24	0.08			0.025		0.030		0.070	0.160			0.0200
JUL 22,87	JUL 21,87	<T	0.10	0.05		<T	0.015		0.025	<T	0.020	0.185			0.0091
JUL 23,87	JUL 22,87	D	1.16	0.39			0.155	D	0.190	B	0.370	1.050			0.0112
JUL 29,87	JUL 28,87		0.16	0.04			0.035		0.030	<T	0.020	0.050			0.0102
AUG 2,87	AUG 1,87	<T	0.10	0.18		<T	0.010		0.025	<T	0.025	0.155			0.0112
AUG 3,87	AUG 2,87		******	******			******		******		******	******			******
AUG 10,87	AUG 9,87		0.12	<T	0.03	<T	0.025	<T	0.025	<T	0.020	0.115			0.0026
AUG 12,87	AUG 11,87	<T	0.06	0.09		<T	0.020		0.145		0.050	0.400			0.0017

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 15,87	AUG 14,87	1600 1600	**** ****	1	12.8	1	31771	2	1		91		
AUG 17,87	AUG 16,87	1600 1600	**** ****	1	8.6	1	32931	2	1		90		C
AUG 18,87	AUG 17,87	1600 1600	**** ****	1	4.2	1	32933	2	1		67		HCN
AUG 20,87	AUG 19,87	1600 1600	**** ****	1	4.0	1	32935	2	1		80		HM
AUG 21,87	AUG 20,87	1600 1600	**** ****	1	3.8	1	32937	2	1		78		
AUG 26,87	AUG 25,87	1600 1600	**** ****	1	5.2	1	32939	2	1		74		
SEP 2,87	SEP 1,87	1600 1600	**** ****	1	7.0	1	32941	2	1		82	C	C
SEP 4,87	SEP 3,87	1600 1600	**** ****	1	3.0	1	32943	2	1		83		H
SEP 5,87	SEP 4,87	1600 1600	**** ****	1	24.8	1	32945	2	1		97		HM
SEP 7,87	SEP 6,87	1600 1600	**** ****	1	0.1	1	32949	2	1		****	EK	
SEP 8,87	SEP 7,87	1600 1600	**** ****	1	12.0	1	32951	2	1		92		
SEP 10,87	SEP 9,87	1600 1600	**** ****	1	3.0	1	32953	2	1		67		
SEP 11,87	SEP 10,87	1600 1600	**** ****	1	9.0	1	32955	2	1		93		
SEP 13,87	SEP 12,87	1600 1600	**** ****	1	6.6	1	32957	2	1		91		
SEP 14,87	SEP 13,87	1600 1600	**** ****	1	0.2	1	32959	2	1		****	EK	
SEP 19,87	SEP 18,87	1600 1600	**** ****	1	14.6	1	32961	2	1		85		
SEP 20,87	SEP 19,87	1600 1600	**** ****	1	1.0	1	32963	2	1		62		H
SEP 29,87	SEP 28,87	1600 1600	**** ****	1	3.0	1	32967	2	1		69		
OCT 2,87	OCT 1,87	1600 1600	**** ****	3	4.8	2	32969	2	1		83	D	
OCT 6,87	OCT 5,87	1600 1600	**** ****	3	4.2	2	32971	2	1		61		C
OCT 9,87	OCT 8,87	1600 1600	**** ****	3	9.4	2	32973	2	1		89	C	
OCT 16,87	OCT 15,87	1600 1600	**** ****	1	15.2	2	32975	2	1		83		
OCT 20,87	OCT 19,87	1600 1600	**** ****	2	4.2	2	32977	2	1		82		
OCT 26,87	OCT 25,87	1600 1600	**** ****	3	3.8	2	32979	2	1		80		
OCT 27,87	OCT 26,87	1600 1600	**** ****	2	0.1	2	32981	2	1		****	EK	
NOV 4,87	NOV 3,87	1600 1600	**** ****	2	2.4	2	32983	2	1		35		H
NOV 16,87	NOV 15,87	1600 1600	**** ****	1	7.6	2	32985	2	1		86		
NOV 19,87	NOV 18,87	1600 1600	**** ****	3	18.8	2	32987	2	1		38		H
NOV 23,87	NOV 22,87	1600 1600	**** ****	2	3.0	2	32989	2	1	U	59	EFI	
NOV 29,87	NOV 28,87	1600 1600	**** ****	2	2.8	2	32991	2	1		79		
DEC 12,87	DEC 11,87	1600 1600	**** ****	2	4.0	2	32993	2	1		48		H
DEC 13,87	DEC 12,87	1600 1600	**** ****	2	0.2	2	32995	2	1		****	EK	
DEC 14,87	DEC 13,87	1600 1600	**** ****	3	0.4	2	32997	2	1		62		
DEC 15,87	DEC 14,87	1600 1600	**** ****	2	1.2	2	32999	2	1		36		H
DEC 16,87	DEC 15,87	1600 1600	**** ****	2	0.1	2	85101	2	1		****	EK	
DEC 19,87	DEC 18,87	1600 1600	**** ****	2	8.2	2	85103	2	1		51		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DANSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM	PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 15,87	AUG 14,87	753.0		13.5	******		4.55		******	UG	0.0525		1.55		0.23
AUG 17,87	AUG 16,87	499.0		4.0	******		5.51		******		0.0206	<T	0.15		0.05
AUG 18,87	AUG 17,87	182.0	LQ	2.0	******		5.91		******		0.0172	<T	0.10	<T	0.02
AUG 20,87	AUG 19,87	206.0		24.0	******		4.39		******	UG	0.0675		2.95		0.57
AUG 21,87	AUG 20,87	191.0		11.0	******		5.44		******		0.0241		2.15		0.33
AUG 26,87	AUG 25,87	248.0		8.0	******		4.72		******		0.0379		0.95		0.06
SEP 2,87	SEP 1,87	370.0		5.5	******		5.35		******		0.0231		0.50		0.12
SEP 4,87	SEP 3,87	160.0		21.0	******		5.95		******		0.0245		2.85		0.95
SEP 5,87	SEP 4,87	1552.0		9.0	******		4.87		******	D	0.0347		1.35		0.22
SEP 7,87	SEP 6,87	******		******	******		******		******		******		******		******
SEP 8,87	SEP 7,87	715.0		6.5	******		5.07		******		0.0260		0.80		0.12
SEP 10,87	SEP 9,87	129.0		10.0	******		4.89		******		0.0325		1.20		0.25
SEP 11,87	SEP 10,87	538.0		11.0	******		5.50		******		0.0242		1.50		0.41
SEP 13,87	SEP 12,87	385.0		2.5	******		5.29		******		0.0223		0.20	<T	0.03
SEP 14,87	SEP 13,87	******		******	******		******		******		******		******		******
SEP 19,87	SEP 18,87	802.0		17.5	******		4.40		******	UG	0.0607		1.90		0.11
SEP 20,87	SEP 19,87	40.0		7.0	******		4.88		******		0.0314		0.70		0.08
SEP 29,87	SEP 28,87	134.0		8.0	******		6.67		******		0.0153		1.20		0.34
OCT 2,87	OCT 1,87	258.0		6.0	******		6.13		******		0.0157		1.20		0.16
OCT 6,87	OCT 5,87	165.0	LQ	1.0	******		5.73		******		0.0162		0.30	<T	0.04
OCT 9,87	OCT 8,87	542.0		13.0	******	UQ	7.20		******		0.0153		1.65		0.44
OCT 16,87	OCT 15,87	810.0		12.0	******		4.54		******		0.0480		1.60		0.17
OCT 20,87	OCT 19,87	221.0		7.5	******		5.14		******		0.0240		0.65		0.24
OCT 26,87	OCT 25,87	197.0		9.0	******		4.90		******		0.0312		0.95		0.24
OCT 27,87	OCT 26,87	******		******	******		******		******		******		******		******
NOV 4,87	NOV 3,87	54.0		12.0	******		4.79		******		0.0360		1.80		0.19
NOV 16,87	NOV 15,87	419.0		26.5	******		4.31		******		0.0785		2.55		0.58
NOV 19,87	NOV 18,87	466.0		7.5	******		5.11		******		0.0402		0.90		0.26
NOV 23,87	NOV 22,87	115.0		13.0	******		4.74		******		0.0405		0.95		0.49
NOV 29,87	NOV 28,87	142.0		19.0	******		4.41		******		0.0632		1.80		0.24
DEC 12,87	DEC 11,87	124.0		9.5	******		4.69		******		0.0406		0.65		0.31
DEC 13,87	DEC 12,87	******		******	******		******		******		******		******		******
DEC 14,87	DEC 13,87	16.0		8.0	******		4.82		******		0.0309		0.30		0.25
DEC 15,87	DEC 14,87	28.0		16.0	******		4.46		******		0.0546		0.95		0.33
DEC 16,87	DEC 15,87	******		******	******		******		******		******		******		******
DEC 19,87	DEC 18,87	271.0		14.5	******		4.59		******		0.0453		0.55		0.44

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAMSON/DAILY/AEROCHEM./6131 PAGE : 6

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
AUG 15,87	AUG 14,87		0.18		0.10		0.025	<T	0.015		0.025		0.215		0.0282
AUG 17,87	AUG 16,87	<W	0.02	<W	0.01	<T	0.010	<T	0.020	<T	0.020	<T	0.020		0.0031
AUG 18,87	AUG 17,87	<W	0.02		0.06	<T	0.005		0.055		0.040	<T	0.010		0.0012
AUG 20,87	AUG 19,87		1.02		0.16		0.085		0.030		0.050		0.425		0.0407
AUG 21,87	AUG 20,87		0.38		0.06		0.110		0.075		0.045		0.485		0.0036
AUG 26,87	AUG 25,87	<W	0.02	<W	0.01	<T	0.010	<T	0.010	<T	0.015		0.035		0.0191
SEP 2,87	SEP 1,87	<W	0.02	<T	0.02	<T	0.010	<T	0.015	<T	0.015		0.190		0.0045
SEP 4,87	SEP 3,87		1.28		0.44		0.120		0.180		0.110		0.900		0.0011
SEP 5,87	SEP 4,87	D	0.34	<T	0.05	<T	0.020	<T	0.010	<T	0.015		0.325		0.0135
SEP 7,87	SEP 6,87		******		******		******		******		******		******		******
SEP 8,87	SEP 7,87	<T	0.06	<W	0.01	<T	0.020	<T	0.020	<T	0.005		0.150		0.0085
SEP 10,87	SEP 9,87		0.18	<T	0.03		0.030		0.030	<T	0.015		0.290		0.0129
SEP 11,87	SEP 10,87		0.30	<T	0.02		0.075		0.045		0.025		0.535		0.0032
SEP 13,87	SEP 12,87	<T	0.02	<W	0.01	<T	0.010	<T	0.015	<T	0.010	<T	0.010		0.0051
SEP 14,87	SEP 13,87		******		******		******		******		******		******		******
SEP 19,87	SEP 18,87		0.14	<T	0.03	<T	0.015	<T	0.020	<T	0.025	<T	0.015		0.0398
SEP 20,87	SEP 19,87	!CR	******		0.12	<T	0.010		0.030		0.025	<W	0.005		0.0132
SEP 29,87	SEP 28,87		0.94		0.06		0.180		0.110		0.045		0.105		0.0002
OCT 2,87	OCT 1,87		0.30		0.06		0.065		0.030		0.210		0.180		0.0007
OCT 6,87	OCT 5,87		0.10	<T	0.03	<T	0.020	<T	0.010	<T	0.015		0.035		0.0019
OCT 9,87	OCT 8,87		1.46		0.08		0.245		0.080		0.045		0.495	UG	0.0001
OCT 16,87	OCT 15,87		0.18	<T	0.04		0.020	<T	0.010	<T	0.010		0.115		0.0288
OCT 20,87	OCT 19,87	<T	0.10		0.08	<T	0.020	<T	0.010		0.065		0.175		0.0072
OCT 26,87	OCT 25,87		0.18		0.08	<T	0.020	<T	0.015		0.045		0.140		0.0126
OCT 27,87	OCT 26,87		******		******		******		******		******		******		******
NOV 4,87	NOV 3,87		0.20		0.08		0.030		0.060		0.075		0.245		0.0162
NOV 16,87	NOV 15,87		0.18		0.08	<T	0.020	<T	0.020		0.035		0.385		0.0490
NOV 19,87	NOV 18,87	<T	0.05	<T	0.04	<W	0.005	<W	0.005	<T	0.020		0.315		0.0078
NOV 23,87	NOV 22,87		0.22		0.10		0.035	<T	0.020		0.045		0.300		0.0182
NOV 29,87	NOV 28,87		0.10		0.07	<T	0.005	<W	0.005		0.040		0.060		0.0389
DEC 12,87	DEC 11,87	<T	0.04		0.05	<T	0.005	<T	0.010		0.030		0.105		0.0204
DEC 13,87	DEC 12,87		******		******		******		******		******		******		******
DEC 14,87	DEC 13,87	!IS	******		0.12	!IS	******	!IS	******	!IS	******	<T	0.015		0.0151
DEC 15,87	DEC 14,87	!IS	******		0.07	!IS	******	!IS	******	!IS	******	<T	0.010		0.0347
DEC 16,87	DEC 15,87		******		******		******		******		******		******		******
DEC 19,87	DEC 18,87	<T	0.04		0.07	<T	0.005	<T	0.005		0.035		0.110		0.0257

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,87	DEC 31,86	800	800	815	1900	3	3.2	2	32394	2	1	69		
JAN 2,87	JAN 1,87	800	800	830	930	2	0.1	2	32395	2	1	****	EK	
JAN 7,87	JAN 5,87	800	800	500	1100	2	0.7	2	32396	2	1	75		Z
JAN 10,87	JAN 9,87	1000	1000	800	1000	2	0.1	2	32397	2	1	31	E	N
JAN 11,87	JAN 10,87	1000	800	1000	1200	2	0.1	2	32398	2	1	****	EK	
JAN 15,87	JAN 14,87	800	800	2200	100	2	0.1	2	32399	2	1	****	EK	
JAN 16,87	JAN 15,87	800	800	****	****	2	0.1	2	32400	2	1	****	EK	
JAN 17,87	JAN 16,87	800	1200	2300	****	2	0.1	2	32401	2	1	****	EK	
JAN 18,87	JAN 17,87	1200	1200	1700	2200	2	0.1	2	32402	2	1	46	E	N
JAN 20,87	JAN 19,87	800	800	900	2000	2	3.4	2	32403	2	1	77	Q	
JAN 22,87	JAN 21,87	800	800	900	2200	2	4.5	2	32404	2	1	45	C	N
JAN 27,87	JAN 26,87	800	800	****	****	2	0.1	2	32405	2	1	****	EK	
JAN 31,87	JAN 29,87	800	800	900	1200	2	5.5	2	32408	2	1	75		Y2
FEB 3,87	FEB 2,87	800	800	900	1800	2	7.8	2	32410	2	1	80		HCM
FEB 4,87	FEB 3,87	800	800	1100	2000	2	0.3	2	32411	2	1	10	E	N
FEB 7,87	FEB 6,87	800	800	1800	2100	3	0.2	2	32412	2	1	****	KE	
FEB 15,87	FEB 13,87	800	800	1500	2300	2	1.5	2	32414	2	1	72		HY2
FEB 23,87	FEB 21,87	730	730	1200	2000	2	3.5	2	32419	2	1	75		HY2
FEB 24,87	FEB 23,87	730	730	730	1300	2	0.5	2	32420	2	1	149		N
MAR 2,87	FEB 28,87	800	800	200	1700	2	12.2	2	32421	2	1	47		NHCHY2
MAR 12,87	MAR 11,87	800	800	2000	2300	2	0.1	2	32424	2	1	140		NHC
MAR 14,87	MAR 13,87	800	800	800	2100	2	0.2	2	32425	2	1	85		
MAR 23,87	MAR 22,87	800	900	100	830	1	1.8	2	32426	2	1	136	C	N
MAR 24,87	MAR 23,87	900	800	2300	700	1	0.1	2	32427	2	1	405		N
MAR 27,87	MAR 26,87	800	800	830	1030	2	0.2	2	32428	2	1	249		N
MAR 28,87	MAR 27,87	800	900	1100	830	2	0.1	2	32429	2	1	218		N
APR 21,87	APR 20,87	730	730	1530	1730	1	0.1	2	32432	2	1	514	C	N
APR 25,87	APR 24,87	500	800	600	700	1	4.2	1	32433	2	1	95	D	
APR 27,87	APR 26,87	730	730	1915	2000	1	1.8	1	32434	2	1	97	Q	
MAY 10,87	MAY 9,87	730	730	1500	1520	1	0.8	1	32436	2	1	54	CQ	H
MAY 13,87	MAY 12,87	730	730	1645	1700	1	0.1	1	32437	2	1	****	EK	
MAY 16,87	MAY 15,87	730	800	1400	1500	1	2.6	1	32439	2	1	231		NZ
MAY 17,87	MAY 16,87	800	830	2030	2130	1	29.5	1	32440	2	1	****	IFKE	
MAY 18,87	MAY 17,87	830	805	1500	2200	1	22.2	1	32441	2	1	****	IFKE	
MAY 22,87	MAY 21,87	800	800	****	****	3	41.0	1	32442	2	1	U 32	FEQ	
MAY 23,87	MAY 22,87	800	730	730	100	1	0.1	1	32443	2	1	****	EK	
MAY 26,87	MAY 25,87	800	800	2100	700	1	3.6	1	32444	2	1	87		
MAY 27,87	MAY 26,87	800	730	1100	1130	1	0.8	1	32445	2	1	66		
MAY 31,87	MAY 30,87	800	800	1900	2100	1	1.0	1	32446	2	1	29	C	N
JUN 2,87	JUN 1,87	730	730	1625	1730	1	20.2	1	32447	2	1	101		C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM 816 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 1,87	DEC 31,86	142.0		9.7		******		5.34		******		0.0243		1.35		0.46	
JAN 2,87	JAN 1,87	******		******		******		******		******		******		******		******	
JAN 7,87	JAN 5,87	34.0		40.8		******		4.32		******		0.0800		5.45	UG	1.62	
JAN 10,87	JAN 9,87	2.0		******		******		******		******		******		******		******	
JAN 11,87	JAN 10,87	******		******		******		******		******		******		******		******	
JAN 15,87	JAN 14,87	******		******		******		******		******		******		******		******	
JAN 16,87	JAN 15,87	******		******		******		******		******		******		******		******	
JAN 17,87	JAN 16,87	******		******		******		******		******		******		******		******	
JAN 18,87	JAN 17,87	3.0		******		******		******		******		******		******		******	
JAN 20,87	JAN 19,87	168.0		6.4		******		4.82		******	D	0.0254		0.30		0.17	
JAN 22,87	JAN 21,87	132.0		5.9		******		4.89		******		0.0241	<T	0.20		0.17	
JAN 27,87	JAN 26,87	******		******		******		******		******		******		******		******	
JAN 31,87	JAN 29,87	267.0		9.4		******		4.82		******		0.0297		0.70		0.26	
FEB 3,87	FEB 2,87	402.0		4.2		******		5.58		******		0.0170		0.50		0.08	
FEB 4,87	FEB 3,87	2.0		******		******		******		******		******		******		******	
FEB 7,87	FEB 6,87	******		******		******		******		******		******		******		******	
FEB 15,87	FEB 13,87	70.0		21.9		******		4.89		******		0.0362		3.75		0.58	
FEB 23,87	FEB 21,87	170.0		31.3		******		4.31		******		0.0685		3.15		1.14	
FEB 24,87	FEB 23,87	48.0	UG	72.3		******	LG	3.78		******	UG	0.1710		1.65	UG	1.93	
MAR 2,87	FEB 28,87	374.0		3.7		******		5.39		******		0.0169		0.30	<T	0.04	
MAR 12,87	MAR 11,87	9.0		5.2		******		5.57		******		0.0175	<N	0.05		0.18	
MAR 14,87	MAR 13,87	11.0		9.4		******		4.81		******		0.0308		0.70		0.22	
MAR 23,87	MAR 22,87	157.0		30.8		******		4.15		******		0.0844		3.35		0.32	
MAR 24,87	MAR 23,87	26.0	UG	77.3		******	LG	3.76		******	UG	0.1970	UG	8.35		1.09	
MAR 27,87	MAR 26,87	32.0	UG	95.0		******	LG	3.67		******	UG	0.2520	UG	9.80	UG	1.23	
MAR 28,87	MAR 27,87	14.0		12.0		******		4.64		******		0.0388		1.05		0.15	
APR 21,87	APR 20,87	33.0		14.6		******	UG	6.87		******		0.0167		1.70		0.40	
APR 25,87	APR 24,87	258.0		21.9		******	UG	6.70		******		0.0208		3.55		0.75	
APR 27,87	APR 26,87	112.0		20.9		******	UG	7.18		******		0.0174		1.95		0.52	
MAY 10,87	MAY 9,87	28.0	UG	48.0		******	UG	7.52		******		0.0181		3.50		1.10	
MAY 13,87	MAY 12,87	******		******		******		******		******		******		******		******	
MAY 16,87	MAY 13,87	386.0		12.8		******		4.97		******		0.0290		1.85		0.40	
MAY 17,87	MAY 16,87	******		******		******		******		******		******		******		******	
MAY 18,87	MAY 17,87	******		******		******		******		******		******		******		******	
MAY 22,87	MAY 21,87	842.0		******		******		******		******		******		******		******	
MAY 23,87	MAY 22,87	******		******		******		******		******		******		******		******	
MAY 26,87	MAY 25,87	203.0		22.5		******		4.27		******	UG	0.0635		2.15		0.40	
MAY 27,87	MAY 26,87	34.0		26.6		******	!IS	******		******	!IS	******		2.45		0.55	
MAY 31,87	MAY 30,87	19.0		10.7		******	!IS	******		******	!IS	******		1.15		0.35	
JUN 2,87	JUN 1,87	1313.0		8.1		******		5.47		******		0.0202		0.95		0.20	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JAN 1,87	DEC 31,86		0.34		0.06		0.040	<T	0.025		0.040		0.525		0.0046
JAN 2,87	JAN 1,87		******		******		******		******		******		******		******
JAN 7,87	JAN 5,87		0.36		0.15		0.030		0.030		0.065	UG	2.350		0.0479
JAN 10,87	JAN 9,87		******		******		******		******		******		******		******
JAN 11,87	JAN 10,87		******		******		******		******		******		******		******
JAN 15,87	JAN 14,87		******		******		******		******		******		******		******
JAN 16,87	JAN 15,87		******		******		******		******		******		******		******
JAN 17,87	JAN 16,87		******		******		******		******		******		******		******
JAN 18,87	JAN 17,87		******		******		******		******		******		******		******
JAN 20,87	JAN 19,87	<T	0.02	<T	0.04	<T	0.005	<T	0.005	<T	0.010		0.035		0.0151
JAN 22,87	JAN 21,87	<T	0.02		0.06	<T	0.005	<T	0.005	<T	0.015	<T	0.025		0.0129
JAN 27,87	JAN 26,87		******		******		******		******		******		******		******
JAN 31,87	JAN 29,87		0.26		0.12		0.060	<T	0.010		0.045		0.070		0.0151
FEB 3,87	FEB 2,87	<T	0.02	<W	0.01	<T	0.005	<T	0.005	<W	0.005		0.120		0.0026
FEB 4,87	FEB 3,87		******		******		******		******		******		******		******
FEB 7,87	FEB 6,87		******		******		******		******		******		******		******
FEB 15,87	FEB 13,87		0.40		0.18		0.080	<T	0.025		0.060		1.250		0.0129
FEB 23,87	FEB 21,87		0.36		0.15		0.055	<T	0.015	<T	0.020		1.350		0.0490
FEB 24,87	FEB 23,87		0.18		0.39		0.035	<T	0.010		0.060		0.230	LG	0.1660
MAR 2,87	FEB 28,87	<W	0.02	<W	0.01	<W	0.005	<W	0.005	<T	0.005	<W	0.005		0.0041
MAR 12,87	MAR 11,87		0.14		0.10	<T	0.020	<T	0.020		0.025	<T	0.015		0.0027
MAR 14,87	MAR 13,87		0.14		0.12	<T	0.020	<T	0.010		0.025		0.035		0.0155
MAR 23,87	MAR 22,87		0.20		0.13		0.035	<T	0.020		0.045		0.230		0.0708
MAR 24,87	MAR 23,87		0.64		0.40		0.100		0.055		0.190		0.710	LG	0.1738
MAR 27,87	MAR 26,87		0.64	UG	0.54		0.105		0.065		0.230		0.730	LG	0.2138
MAR 28,87	MAR 27,87	<T	0.08		0.09	<T	0.010		0.025		0.035	<W	0.005		0.0229
APR 21,87	APR 20,87		0.60		0.18		0.115	UG	0.200		0.120		0.690	UG	0.0001
APR 25,87	APR 24,87		0.16		0.09		0.030		0.030	<T	0.015		2.100	UG	0.0002
APR 27,87	APR 26,87		0.82		0.17		0.190	UG	0.295		0.090		1.450	UG	0.0001
MAY 10,87	MAY 9,87		2.12		0.29		0.510	U	2.580		0.205	UG	2.900	UG	0.0000
MAY 13,87	MAY 12,87		******		******		******		******		******		******		******
MAY 16,87	MAY 13,87		0.16	<T	0.05	<T	0.020		0.110	<T	0.005		0.620		0.0107
MAY 17,87	MAY 16,87		******		******		******		******		******		******		******
MAY 18,87	MAY 17,87		******		******		******		******		******		******		******
MAY 22,87	MAY 21,87		******		******		******		******		******		******		******
MAY 23,87	MAY 22,87		******		******		******		******		******		******		******
MAY 26,87	MAY 25,87	<T	0.08		0.10	<T	0.010		0.045	<W	0.005		0.280		0.0537
MAY 27,87	MAY 26,87	!IS	******		0.15	!IS	******	!IS	******	!IS	******		0.425	!IS	******
MAY 31,87	MAY 30,87		0.22		0.10		0.060		0.100		0.060		0.205	!IS	******
JUN 2,87	JUN 1,87	<T	0.08	<T	0.05	<T	0.010		0.035	<T	0.010		0.375		0.0034

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 3,87	JUN 2,87	730	730	1630	1730	1	1.0	1	32448	2	1	U 63	EG	
JUN 4,87	JUN 3,87	730	800	900	1000	1	0.6	1	32449	2	1	U 15	EG	
JUN 5,87	JUN 4,87	800	800	930	1200	1	1.2	1	32450	2	1	35		N
JUN 7,87	JUN 6,87	800	800	1200	1315	1	12.0	1	32451	2	1	97		
JUN 11,87	JUN 10,87	730	730	1630	1930	1	6.0	1	32452	2	1	88		
JUN 23,87	JUN 22,87	730	730	1745	1800	1	5.8	1	32454	2	1	97		
JUN 26,87	JUN 25,87	730	800	1530	1550	1	2.0	1	32455	2	1	70	A	
JUN 27,87	JUN 26,87	800	800	1245	1500	1	4.8	1	32456	2	1	94		CN
JUL 2,87	JUL 1,87	800	800	600	630	1	5.0	1	32457	2	1	72	Q	H
JUL 3,87	JUL 2,87	800	800	1400	1420	1	1.8	1	32458	2	1	67		C
JUL 6,87	JUL 5,87	800	800	****	****	1	8.8	1	32459	2	1	99		
JUL 8,87	JUL 7,87	800	730	2100	2130	1	0.1	1	32460	2	1	****	E	N
JUL 11,87	JUL 10,87	730	830	300	400	1	9.6	1	32461	2	1	58		
JUL 12,87	JUL 11,87	830	830	400	600	1	13.6	1	32462	2	1	61		
JUL 13,87	JUL 12,87	830	700	****	****	1	0.8	1	32463	2	1	23		NHCN
JUL 15,87	JUL 13,87	700	800	230	630	1	14.4	1	32464	2	1	56		CMY2
JUL 16,87	JUL 15,87	800	800	200	400	1	3.0	1	32465	2	1	44		N
JUL 17,87	JUL 16,87	800	800	****	****	1	0.6	1	32466	2	1	7	E	N
JUL 18,87	JUL 17,87	800	800	1630	1700	1	14.6	1	32467	2	1	55		
JUL 19,87	JUL 18,87	800	800	2130	2230	1	16.8	1	32468	2	1	67		
JUL 20,87	JUL 19,87	800	730	1300	1500	1	2.0	1	32469	2	1	39		N
JUL 22,87	JUL 21,87	730	730	200	600	1	10.0	1	32470	2	1	20		N
JUL 23,87	JUL 22,87	730	730	300	600	1	62.0	1	32471	2	1	60		
JUL 24,87	JUL 23,87	730	800	****	****	1	9.0	1	32472	2	1	47		NC
AUG 1,87	JUL 31,87	800	830	300	600	1	69.2	1	32473	2	1	58		
AUG 2,87	AUG 1,87	830	830	900	1100	1	3.0	1	32474	2	1	50		C
AUG 3,87	AUG 2,87	830	800	245	300	1	7.2	1	32475	2	1	38		N
AUG 10,87	AUG 9,87	700	700	1000	1100	1	5.2	1	32476	2	1	37		NH
AUG 12,87	AUG 11,87	700	800	1230	100	1	5.0	1	32477	2	1	60		
AUG 13,87	AUG 12,87	800	800	1000	1200	1	13.6	1	32478	2	1	49		NH
AUG 15,87	AUG 14,87	800	800	2300	400	1	7.0	1	32479	2	1	56		
AUG 16,87	AUG 15,87	800	800	****	****	1	2.8	1	32480	2	1	76		
AUG 17,87	AUG 16,87	800	730	1400	1600	1	1.4	1	32481	2	1	89		C
AUG 18,87	AUG 17,87	730	730	630	730	1	2.0	1	32482	2	1	50		
AUG 19,87	AUG 18,87	800	730	800	830	1	7.6	1	32485	2	1	60		
AUG 20,87	AUG 19,87	730	730	500	530	1	3.4	1	32486	2	1	90		
AUG 21,87	AUG 20,87	730	730	500	600	1	1.2	1	32487	2	1	65		H
AUG 22,87	AUG 21,87	730	800	1200	1300	1	3.4	1	32488	2	1	100		
AUG 23,87	AUG 22,87	800	800	1800	1900	1	24.0	4	32489	2	1	9		NH
AUG 26,87	AUG 25,87	730	730	1600	730	1	6.4	1	32490	2	1	87		HC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEN #16 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JUN 3,87	JUN 2,87	41.0		******		******		******		******		******		******		******	
JUN 4,87	JUN 3,87	6.0		******		******		******		******		******		******		******	
JUN 5,87	JUN 4,87	27.0		14.8		******		5.03		******		0.0208		2.60		0.40	
JUN 7,87	JUN 6,87	751.0		10.7		******		6.73		******		0.0175		1.20		0.35	
JUN 11,87	JUN 10,87	341.0		13.3		******		4.59		******		0.0368		1.60		0.25	
JUN 23,87	JUN 22,87	363.0	UG	36.0		******		4.18		******	UG	0.1000		4.90		0.58	
JUN 26,87	JUN 25,87	91.0		14.5		******		4.79		******		0.0385		1.55		0.37	
JUN 27,87	JUN 26,87	291.0		3.0		******		5.38		******		0.0186	<T	0.15	<T	0.03	
JUL 2,87	JUL 1,87	233.0		6.5		******		5.33		******		0.0221		0.60		0.26	
JUL 3,87	JUL 2,87	78.0		6.0		******		5.13		******		0.0245		0.30		0.14	
JUL 6,87	JUL 5,87	559.0		5.0		******		5.26		******		0.0218		0.50		0.07	
JUL 8,87	JUL 7,87	******		******		******		******		******		******		******		******	
JUL 11,87	JUL 10,87	359.0		9.5		******		5.22		******		0.0252		1.00		0.35	
JUL 12,87	JUL 11,87	537.0		5.5		******	D	5.53		******		0.0211		0.55		0.22	
JUL 13,87	JUL 12,87	12.0		2.5		******		5.88		******		0.0161	<T	0.10	<T	0.02	
JUL 15,87	JUL 13,87	526.0		3.0		******		5.33		******		0.0201	<T	0.20	<T	0.04	
JUL 16,87	JUL 15,87	86.0		17.0		******		4.66		******		0.0483		1.80		0.54	
JUL 17,87	JUL 16,87	3.0		******		******		******		******		******		******		******	
JUL 18,87	JUL 17,87	520.0		8.0		******		5.14		******	D	0.0256	D	0.85		0.27	
JUL 19,87	JUL 18,87	727.0		6.0		******		5.36		******		0.0210	D	0.75		0.12	
JUL 20,87	JUL 19,87	50.0		7.0		******		5.10		******		0.0281		0.80		0.17	
JUL 22,87	JUL 21,87	134.0		7.0		******		5.06		******		0.0260		0.45		0.27	
JUL 23,87	JUL 22,87	2415.0		10.5		******		5.12		******		0.0286		1.85		0.21	
JUL 24,87	JUL 23,87	274.0		6.0		******		5.24		******		0.0236		0.40		0.13	
AUG 1,87	JUL 31,87	2607.0		10.0		******		6.41		******		0.0170		1.70		0.40	
AUG 2,87	AUG 1,87	97.0		11.5		******		4.84		******		0.0409		2.30		0.60	
AUG 3,87	AUG 2,87	179.0		6.0		******		5.99		******		0.0192		0.75		0.20	
AUG 10,87	AUG 9,87	124.0		9.0		******		5.16		******		0.0254		1.40		0.20	
AUG 12,87	AUG 11,87	193.0		15.5		******		6.49		******		0.0201		3.60		0.46	
AUG 13,87	AUG 12,87	434.0		11.0		******		5.14		******		0.0298		1.95		0.23	
AUG 15,87	AUG 14,87	253.0		10.0		******		4.75		******		0.0364		1.05		0.12	
AUG 16,87	AUG 15,87	137.0		10.0		******		5.13		******		0.0282		1.20		0.35	
AUG 17,87	AUG 16,87	80.0		13.0		******		4.51		******	UG	0.0570		1.60		0.54	
AUG 18,87	AUG 17,87	65.0		8.0		******		4.94		******		0.0301		0.85		0.10	
AUG 19,87	AUG 18,87	294.0		7.5		******		4.96		******		0.0285		0.75		0.11	
AUG 20,87	AUG 19,87	197.0		17.5		******		4.60		******		0.0481		2.00		0.32	
AUG 21,87	AUG 20,87	50.0		13.5		******		5.33		******		0.0260		1.65		0.53	
AUG 22,87	AUG 21,87	218.0		28.0		******		4.43		******	UG	0.0654		3.35		0.64	
AUG 23,87	AUG 22,87	144.0		5.0		******		5.05		******		0.0300		0.60	<T	0.03	
AUG 26,87	AUG 25,87	361.0	D	3.0		******	D	5.91		******	D	0.0198	D	0.35		0.08	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JUN 3,87	JUN 2,87	******		******		******		******		******		******		******	
JUN 4,87	JUN 3,87	******		******		******		******		******		******		******	
JUN 5,87	JUN 4,87	0.76		0.10		0.155		0.075		0.220		0.245		0.0093	
JUN 7,87	JUN 6,87	0.22		0.10		0.045		0.035	<W	0.005		0.755		0.0002	
JUN 11,87	JUN 10,87	0.30		0.10		0.040		0.035		0.030		0.215		0.0257	
JUN 23,87	JUN 22,87	0.28		0.14		0.070		0.035	<T	0.025		0.830		0.0661	
JUN 26,87	JUN 25,87	0.14	<W	0.01		0.040	<T	0.015		0.035		0.395		0.0162	
JUN 27,87	JUN 26,87	0.02	<W	0.00	<W	0.005	<W	0.005	<T	0.010	<T	0.005		0.0042	
JUL 2,87	JUL 1,87	0.08	<T	0.05	<T	0.025	<T	0.025		0.025		0.230		0.0047	
JUL 3,87	JUL 2,87	0.04	<T	0.01	<T	0.010	<T	0.020	<T	0.020		0.085		0.0074	
JUL 6,87	JUL 5,87	0.04	<T	0.06	<T	0.005		0.040	<T	0.020		0.065		0.0055	
JUL 8,87	JUL 7,87	******		******		******		******		******		******		******	
JUL 11,87	JUL 10,87	0.20		0.10		0.030		0.030		0.045		0.350		0.0060	
JUL 12,87	JUL 11,87	0.12		0.07	<T	0.015	<T	0.020		0.030	D	0.270	D	0.0030	
JUL 13,87	JUL 12,87	0.04	<T	0.21	<W	0.005		0.055		0.070	<W	0.005		0.0013	
JUL 15,87	JUL 13,87	0.02	<W	0.01	<T	0.005	<W	0.005	<T	0.005	<T	0.010		0.0047	
JUL 16,87	JUL 15,87	0.48		0.58		0.105		0.030		0.025		0.325		0.0219	
JUL 17,87	JUL 16,87	******		******		******		******		******		******		******	
JUL 18,87	JUL 17,87	0.18		0.06	<T	0.025		0.035	<T	0.025		0.275		0.0072	
JUL 19,87	JUL 18,87	0.12		0.05	<T	0.020	<T	0.010		0.025		0.165		0.0044	
JUL 20,87	JUL 19,87	0.08	<T	0.05	<T	0.015		0.025		0.035		0.205		0.0079	
JUL 22,87	JUL 21,87	0.12		0.06		0.025		0.025		0.050		0.135		0.0087	
JUL 23,87	JUL 22,87	0.16		0.06		0.030		0.025		0.030		0.500		0.0076	
JUL 24,87	JUL 23,87	0.02	<T	0.01	<T	0.015	<T	0.010	<T	0.025		0.110		0.0058	
AUG 1,87	JUL 31,87	0.36		0.08		0.060		0.045		0.035		0.650		0.0004	
AUG 2,87	AUG 1,87	0.38		0.30		0.050		0.045		0.035		0.775		0.0145	
AUG 3,87	AUG 2,87	0.08	<T	0.05	<T	0.020		0.025	<T	0.015		0.390		0.0010	
AUG 10,87	AUG 9,87	0.36		0.06		0.085		0.035	<T	0.020		0.230		0.0069	
AUG 12,87	AUG 11,87	0.76		0.12	D	0.160		0.070	<T	0.025		1.000		0.0003	
AUG 13,87	AUG 12,87	0.40	<T	0.04		0.070		0.025	<T	0.005		0.475		0.0072	
AUG 15,87	AUG 14,87	0.12	<T	0.03	<T	0.020	<T	0.010	<T	0.010		0.095		0.0178	
AUG 16,87	AUG 15,87	0.16		0.09	<T	0.025	<T	0.025		0.030		0.515		0.0074	
AUG 17,87	AUG 16,87	0.24		0.13		0.030		0.045		0.035		0.305		0.0309	
AUG 18,87	AUG 17,87	0.06	<T	0.01	<T	0.010	<T	0.015	<T	0.020	D	0.065		0.0115	
AUG 19,87	AUG 18,87	0.02	<W	0.01	<T	0.005	<T	0.025	<T	0.010		0.130		0.0110	
AUG 20,87	AUG 19,87	0.24	<T	0.04		0.055		0.035	<T	0.015		0.350		0.0251	
AUG 21,87	AUG 20,87	0.44		0.10		0.085		0.045		0.075		0.570		0.0047	
AUG 22,87	AUG 21,87	0.52		0.16		0.050		0.045		0.060		0.760		0.0372	
AUG 23,87	AUG 22,87	0.02	<W	0.01	<T	0.010	<T	0.015	<W	0.005	<T	0.025		0.0089	
AUG 26,87	AUG 25,87	0.08	<T	0.01	<T	0.020	<T	0.020	<T	0.010	D	0.080	D	0.0012	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM 816 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 27,87	AUG 26,87	730	730	730	1300	1	1.6	1	32491	2	1	40		N
AUG 30,87	AUG 29,87	800	800	2300	2400	1	10.6	1	32492	2	1	100		
AUG 31,87	AUG 30,87	800	730	2100	2200	1	1.2	1	32493	2	1	48		N
SEP 2,87	SEP 1,87	730	730	800	1000	1	1.0	1	32494	2	1	87		
SEP 4,87	SEP 3,87	730	730	1230	1430	1	5.6	1	32495	2	1	98	C	HCM
SEP 6,87	SEP 5,87	800	800	1600	1800	1	8.4	1	32496	2	1	100		H
SEP 7,87	SEP 6,87	800	800	1200	1300	1	2.0	1	32497	2	1	83		H
SEP 8,87	SEP 7,87	800	730	2400	400	1	4.8	1	32498	2	1	91	AQ	H
SEP 10,87	SEP 9,87	730	730	830	930	1	0.6	1	32499	2	1	148		NHM
SEP 11,87	SEP 10,87	730	730	1330	1730	1	7.4	1	31901	2	1	99		
SEP 12,87	SEP 11,87	730	800	1700	1800	1	0.6	1	31902	2	1	33		N
SEP 18,87	SEP 17,87	730	730	1600	1700	1	0.1	1	31903	2	1	****	EK	
SEP 19,87	SEP 18,87	730	800	2400	400	1	12.0	1	31904	2	1	90		
SEP 20,87	SEP 19,87	800	800	1900	2100	1	11.0	1	31905	2	1	84		
SEP 21,87	SEP 20,87	800	730	1600	1900	1	3.8	1	31906	2	1	96	A	C
SEP 27,87	SEP 26,87	800	800	2200	2300	1	0.2	1	31907	2	1	46		XN
SEP 29,87	SEP 28,87	730	730	100	400	1	1.2	1	31908	2	1	98		
OCT 2,87	OCT 1,87	730	730	****	****	3	8.0	2	31909	2	1	132	C	NH
OCT 6,87	OCT 5,87	730	730	1100	1300	1	8.6	2	31910	2	1	76		HM
OCT 7,87	OCT 6,87	730	730	900	1100	3	1.8	2	31911	2	1	65		HCM
OCT 9,87	OCT 8,87	730	730	300	500	3	0.8	2	31912	2	1	99		
OCT 10,87	OCT 9,87	730	800	730	900	3	0.1	2	31913	2	1	****	EK	
OCT 16,87	OCT 15,87	800	800	2	4	1	4.0	2	31914	2	1	90		
OCT 17,87	OCT 16,87	800	830	****	****	1	0.4	2	31915	2	1	****	EK	
OCT 20,87	OCT 19,87	730	730	400	600	2	0.2	2	31916	2	1	31		XN
OCT 21,87	OCT 20,87	730	730	1600	1800	3	0.6	2	31917	2	1	54		
OCT 23,87	OCT 22,87	730	730	1330	1530	2	0.5	2	31918	2	1	12		XN
OCT 27,87	OCT 26,87	800	730	1700	1800	3	0.2	2	31919	2	1	54		X
OCT 28,87	OCT 27,87	730	730	1730	1930	3	1.8	2	31920	2	1	45		N
NOV 2,87	NOV 1,87	730	730	500	700	1	0.2	2	31921	2	1	140		N
NOV 3,87	NOV 2,87	730	730	800	1000	1	0.1	2	31922	2	1	****	EK	
NOV 5,87	NOV 4,87	730	730	1830	1930	2	1.2	2	31923	2	1	32		N
NOV 16,87	NOV 15,87	730	730	300	500	1	8.8	2	31924	2	1	93		
NOV 17,87	NOV 16,87	730	730	****	****	3	15.6	2	31925	2	1	U 46	FI	H
NOV 18,87	NOV 17,87	730	730	730	1200	2	1.0	2	31926	2	1	****	EIF	
NOV 24,87	NOV 23,87	730	730	800	1100	3	1.2	2	31927	2	1	20		N
NOV 28,87	NOV 27,87	730	730	1800	2300	2	1.4	2	31928	2	1	42		N
NOV 30,87	NOV 29,87	730	730	900	1300	4	0.1	2	31929	2	1	****	EK	
DEC 1,87	NOV 30,87	730	730	2000	2400	2	0.1	2	31931	2	1	****	EK	
DEC 2,87	DEC 1,87	830	830	830	1100	2	0.1	2	31932	2	1	****	EK	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 27,87	AUG 26,87	42.0		3.5		******		5.20		******		0.0251		0.45		0.07
AUG 30,87	AUG 29,87	685.0		4.5		******		5.93		******		0.0197		0.55		0.15
AUG 31,87	AUG 30,87	37.0		3.0		******		5.29		******	!IR	******		0.30	<T	0.03
SEP 2,87	SEP 1,87	56.0		10.0		******	D	6.36		******	D	0.0150		1.60		0.27
SEP 4,87	SEP 3,87	355.0		3.5		******		6.63		******		0.0201		0.40		0.12
SEP 6,87	SEP 5,87	542.0		11.0		******		5.53		******		0.0209		1.55		0.31
SEP 7,87	SEP 6,87	107.0		10.0		******		5.03		******		0.0306		1.85		0.29
SEP 8,87	SEP 7,87	280.0		4.9		******		5.51		******		0.0240		0.65		0.14
SEP 10,87	SEP 9,87	57.0		15.0		******	D	5.70		******		0.0220		1.95		0.48
SEP 11,87	SEP 10,87	472.0		11.0		******		4.93		******		0.0337		1.35		0.25
SEP 12,87	SEP 11,87	13.0		3.5		******		5.15		******		0.0246		0.30		0.06
SEP 18,87	SEP 17,87	******		******		******		******		******		******		******		******
SEP 19,87	SEP 18,87	695.0		5.0		******		4.88		******		0.0282		0.55		0.06
SEP 20,87	SEP 19,87	599.0		5.5		******		4.90		******		0.0280		0.60	<T	0.03
SEP 21,87	SEP 20,87	234.0		11.5		******		4.82		******		0.0337		0.60		0.09
SEP 27,87	SEP 26,87	6.0		******		******		******		******		******		******		******
SEP 29,87	SEP 28,87	76.0		6.0		******		5.20		******		0.0240		0.75		0.12
OCT 2,87	OCT 1,87	680.0		3.0		******		5.70		******		0.0172		0.65		0.06
OCT 6,87	OCT 5,87	420.0	LQ	2.0		******		5.89		******		0.0161		0.45		0.05
OCT 7,87	OCT 6,87	76.0	<T	0.5		******		5.63		******		0.0159	<T	0.15	<T	0.02
OCT 9,87	OCT 8,87	51.0	B	32.0		******	UQ	7.21		******		0.0158	D	4.40		1.29
OCT 10,87	OCT 9,87	******		******		******		******		******		******		******		******
OCT 16,87	OCT 15,87	233.0		29.0		******		4.17		******	UQ	0.0864		3.55		0.34
OCT 17,87	OCT 16,87	******		******		******		******		******		******		******		******
OCT 20,87	OCT 19,87	4.0		******		******		******		******		******		******		******
OCT 21,87	OCT 20,87	21.0		4.0		******	!IS	******		******	!IS	******		0.50		0.12
OCT 23,87	OCT 22,87	4.0		******		******		******		******		******		******		******
OCT 27,87	OCT 26,87	7.0		******		******		******		******		******		******		******
OCT 28,87	OCT 27,87	52.0		3.5		******		5.21		******		0.0252		0.50	<T	0.03
NOV 2,87	NOV 1,87	18.0		16.0		******		4.55		******		0.0535		1.50		0.22
NOV 3,87	NOV 2,87	******		******		******		******		******		******		******		******
NOV 5,87	NOV 4,87	25.0		13.0		******		4.88		******		0.0400		1.70		0.32
NOV 16,87	NOV 15,87	527.0	D	16.0		******		4.54		******		0.0505		1.75		0.27
NOV 17,87	NOV 16,87	469.0		8.0		******		5.11		******		0.0284		0.95		0.31
NOV 18,87	NOV 17,87	******		******		******		******		******		******		******		******
NOV 24,87	NOV 23,87	16.0		11.5		******		5.47		******		0.0260		0.90		0.71
NOV 28,87	NOV 27,87	38.0		34.0		******		4.11		******		0.1000		3.30		0.24
NOV 30,87	NOV 29,87	******		******		******		******		******		******		******		******
DEC 1,87	NOV 30,87	******		******		******		******		******		******		******		******
DEC 2,87	DEC 1,87	******		******		******		******		******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	ANMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 27,87	AUG 26,87	<T 0.06	<T 0.04	<T 0.015	<T 0.020	0.025	!IS ******	0.0063
AUG 30,87	AUG 29,87	<T 0.04	<W 0.01	<T 0.015	0.030	<T 0.005	0.275	0.0012
AUG 31,87	AUG 30,87	<T 0.04	<T 0.05	<T 0.010	U 0.130	U 0.050	!IS ******	0.0051
SEP 2,87	SEP 1,87	D 0.46	0.13	0.130	U 0.070	U 0.030	D 0.585	D 0.0004
SEP 4,87	SEP 3,87	<T 0.06	<W 0.01	0.030	<T 0.015	<W 0.005	0.175	0.0002
SEP 6,87	SEP 5,87	0.42	<T 0.04	0.045	0.025	<T 0.005	0.440	0.0030
SEP 7,87	SEP 6,87	0.36	<T 0.05	0.080	0.055	<T 0.025	0.460	0.0093
SEP 8,87	SEP 7,87	<T 0.06	<T 0.03	<T 0.020	0.030	<T 0.010	D 0.285	0.0031
SEP 10,87	SEP 9,87	0.36	0.09	0.080	0.055	<T 0.015	D 1.250	D 0.0020
SEP 11,87	SEP 10,87	0.18	<T 0.03	0.045	0.035	<W 0.005	0.325	0.0117
SEP 12,87	SEP 11,87	<T 0.04	<T 0.02	<T 0.010	<T 0.025	<T 0.015	<W 0.005	0.0071
SEP 16,87	SEP 17,87	******	******	******	******	******	******	******
SEP 19,87	SEP 18,87	<T 0.04	<W 0.01	<T 0.005	<T 0.010	<W 0.005	<W 0.005	0.0132
SEP 20,87	SEP 19,87	<T 0.02	<W 0.01	<W 0.005	<T 0.015	<W 0.005	<T 0.010	0.0126
SEP 21,87	SEP 20,87	<W 0.02	<T 0.02	<W 0.005	<T 0.025	<W 0.005	0.055	0.0151
SEP 27,87	SEP 26,87	******	******	******	******	******	******	******
SEP 29,87	SEP 28,87	<T 0.06	<T 0.02	<T 0.015	<T 0.015	<T 0.025	0.190	0.0063
OCT 2,87	OCT 1,87	<T 0.06	<T 0.02	<T 0.015	<T 0.010	0.025	0.125	0.0020
OCT 6,87	OCT 5,87	<T 0.04	<T 0.01	<T 0.010	<T 0.010	0.025	0.105	0.0013
OCT 7,87	OCT 6,87	<W 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.005	<T 0.005	0.0023
OCT 9,87	OCT 8,87	D 2.80	0.25	D 0.455	B 0.270	B 0.195	D 1.200	UB 0.0001
OCT 10,87	OCT 9,87	******	******	******	******	******	******	******
OCT 16,87	OCT 15,87	0.38	<T 0.04	0.045	<T 0.015	<T 0.020	0.300	0.0676
OCT 17,87	OCT 16,87	******	******	******	******	******	******	******
OCT 20,87	OCT 19,87	******	******	******	******	******	******	******
OCT 21,87	OCT 20,87	<T 0.04	0.06	<T 0.010	<T 0.015	0.040	0.180	!IS ******
OCT 23,87	OCT 22,87	******	******	******	******	******	******	******
OCT 27,87	OCT 26,87	******	******	******	******	******	******	******
OCT 28,87	OCT 27,87	<T 0.06	0.08	<W 0.005	<T 0.015	0.050	<T 0.020	0.0062
NOV 2,87	NOV 1,87	!IS ******	0.09	!IS ******	!IS ******	!IS ******	0.135	0.0282
NOV 5,87	NOV 2,87	******	******	******	******	******	******	******
NOV 5,87	NOV 4,87	!IS ******	0.07	!IS ******	!IS ******	!IS ******	0.515	0.0132
NOV 16,87	NOV 15,87	0.13	0.05	<T 0.010	<T 0.010	0.035	0.260	0.0288
NOV 17,87	NOV 16,87	0.13	0.06	<W 0.005	<T 0.010	0.030	0.305	0.0079
NOV 18,87	NOV 17,87	******	******	******	******	******	******	******
NOV 24,87	NOV 23,87	!IS ******	0.08	!IS ******	!IS ******	!IS ******	0.475	0.0234
NOV 28,87	NOV 27,87	<T 0.08	0.09	<T 0.005	<T 0.010	0.055	0.045	0.0776
NOV 30,87	NOV 29,87	******	******	******	******	******	******	******
DEC 1,87	NOV 30,87	******	******	******	******	******	******	******
DEC 3,87	DEC 1,87	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 05-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 7,87	DEC 6,87	730	800	1100	2000	2	3.3	2	31933	2	1	85		HM
DEC 9,87	DEC 8,87	730	730	1000	1400	3	0.2	2	31934	2	1	109		
DEC 11,87	DEC 10,87	730	730	2000	2200	3	0.2	2	31935	2	1	124		N
DEC 12,87	DEC 11,87	730	800	1400	2000	2	0.4	2	31936	2	1	66		
DEC 13,87	DEC 12,87	800	800	800	1100	2	1.9	2	31937	2	1	30	BQ	N
DEC 14,87	DEC 13,87	800	730	2000	2400	2	1.0	2	31938	2	1	39		N
DEC 15,87	DEC 14,87	730	800	100	800	2	0.8	2	31939	2	1	35		N
DEC 16,87	DEC 15,87	800	730	800	1100	2	0.1	2	31940	2	1	*****	EK	
DEC 18,87	DEC 17,87	730	830	2300	830	2	1.5	2	31941	2	1	49		N
DEC 19,87	DEC 18,87	830	830	1600	1900	2	0.4	2	31942	2	1	39		N
DEC 20,87	DEC 19,87	830	830	2000	2400	2	1.8	2	31943	2	1	92		
DEC 21,87	DEC 20,87	830	730	1900	2100	2	0.6	2	31944	2	1	13		N
DEC 25,87	DEC 24,87	730	830	900	1300	2	3.1	2	31945	2	1	40		N
DEC 31,87	DEC 30,87	830	830	1400	630	2	3.2	2	31946	2	1	37		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
DEC 7,87	DEC 6,87	180.0		4.0		******		5.29		******		0.0246		0.45		0.13
DEC 9,87	DEC 8,87	14.0		8.0		******		4.81		******		0.0371		0.80		0.16
DEC 11,87	DEC 10,87	16.0		6.0		******		5.01		******		0.0193		1.10		0.20
DEC 12,87	DEC 11,87	17.0		4.0		******		5.15		******	D	0.0248		0.40		0.16
DEC 13,87	DEC 12,87	37.0		5.5		******		5.01		******		0.0305		0.75		0.11
DEC 14,87	DEC 13,87	25.0		6.5		******		5.15		******		0.0277		1.05		0.10
DEC 15,87	DEC 14,87	18.0		5.5		******		5.04		******		0.0265		0.35		0.16
DEC 16,87	DEC 15,87	******		******		******		******		******		******		******		******
DEC 18,87	DEC 17,87	48.0		15.5		******		4.53		******		0.0478		0.45		0.71
DEC 19,87	DEC 18,87	10.0	D	5.0		******	D	5.55		******		0.0231		0.35		0.25
DEC 20,87	DEC 19,87	107.0		21.0		******		4.43		******		0.0586		1.40		0.64
DEC 21,87	DEC 20,87	5.0	!IS	******		******	!IS	******		******	!IS	******	!IS	******	!IS	******
DEC 25,87	DEC 24,87	81.0		9.0		******		4.70		******		0.0377		0.25		0.31
DEC 31,87	DEC 30,87	77.0		25.5		******		4.25		******		0.0743		0.80		0.77

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM 816

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIN MG/L	POTASSIN MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 7,87	DEC 6,87	<T 0.05	0.22	<W 0.005	0.105	0.130	0.055	0.0051
DEC 9,87	DEC 8,87	<T 0.04	<T 0.04	<W 0.005	<W 0.005	0.045	0.100	0.0155
DEC 11,87	DEC 10,87	!IS ******	0.05	!IS ******	!IS ******	!IS ******	0.125	0.0015
DEC 12,87	DEC 11,87	!IS ******	0.06	!IS ******	!IS ******	!IS ******	0.100	0.0071
DEC 13,87	DEC 12,87	!IS ******	0.07	!IS ******	!IS ******	!IS ******	<W 0.005	0.0098
DEC 14,87	DEC 13,87	!IS ******	0.12	!IS ******	!IS ******	!IS ******	0.030	0.0071
DEC 15,87	DEC 14,87	!IS ******	0.05	!IS ******	!IS ******	!IS ******	<T 0.020	0.0091
DEC 16,87	DEC 15,87	******	******	******	******	******	******	******
DEC 18,87	DEC 17,87	0.46	0.09	0.055	0.035	0.070	<T 0.020	0.0295
DEC 19,87	DEC 18,87	!IS ******	0.09	!IS ******	!IS ******	!IS ******	0.095	D 0.0028
DEC 20,87	DEC 19,87	0.10	0.06	<T 0.015	<T 0.010	0.030	0.435	0.0372
DEC 21,87	DEC 20,87	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<W 0.005	!IS ******
DEC 25,87	DEC 24,87	!IS ******	0.07	!IS ******	!IS ******	!IS ******	<W 0.005	0.0200
DEC 31,87	DEC 30,87	<T 0.08	0.11	<T 0.005	<T 0.005	0.045	0.170	0.0562

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,87	JAN 1,87	900	900	****	****	2	2.8	2	31724	2	1		56		
JAN 20,87	JAN 19,87	900	900	****	****	2	6.5	2	31726	2	1		82		
JAN 30,87	JAN 29,87	900	900	****	****	2	4.4	2	31729	2	1		82		
FEB 3,87	FEB 2,87	900	900	****	****	2	2.0	2	31730	2	1		55		
FEB 11,87	FEB 10,87	900	900	****	****	2	2.0	2	31732	2	1		46		N
FEB 14,87	FEB 13,87	900	900	****	****	2	2.4	2	31733	2	1		60		
FEB 22,87	FEB 21,87	900	900	****	****	2	4.2	2	31735	2	1		115		
FEB 24,87	FEB 23,87	900	900	****	****	2	4.0	2	31736	2	1		75		
MAR 2,87	MAR 1,87	900	900	****	****	2	5.8	2	31737	2	1		69		N
MAR 24,87	MAR 23,87	900	900	****	****	1	5.8	2	31738	2	1		104	C	
APR 1,87	MAR 31,87	900	900	****	****	2	2.4	2	31739	2	1		95		
APR 21,87	APR 20,87	900	900	****	****	1	0.1	1	31740	2	1		****	KE	
MAY 13,87	MAY 12,87	900	900	****	****	1	3.0	1	31741	2	1		73	Q	HH
MAY 14,87	MAY 13,87	900	900	****	****	1	5.0	1	31742	2	1		89	C	HH
MAY 16,87	MAY 15,87	900	900	****	****	1	2.1	1	31743	2	1		84	C	
MAY 19,87	MAY 18,87	900	900	****	****	1	9.0	1	31744	2	1		203		NHH
MAY 21,87	MAY 20,87	900	900	****	****	1	8.8	1	31746	2	1		96		
MAY 22,87	MAY 21,87	900	900	****	****	1	25.0	1	31752	2	1	U	76	EQ	
MAY 26,87	MAY 25,87	900	900	****	****	1	11.2	1	31747	2	1		92		
JUN 2,87	JUN 1,87	900	900	****	****	1	13.8	1	31748	2	1	U	99	EQ	
JUN 4,87	JUN 3,87	900	900	****	****	1	9.2	1	31749	2	1	U	95	EQ	
JUN 5,87	JUN 4,87	900	900	****	****	1	3.4	1	31750	2	1		82		
JUN 6,87	JUN 5,87	900	900	****	****	1	3.2	1	31751	2	1		73		N
JUN 24,87	JUN 23,87	900	900	****	****	1	4.9	1	31753	2	1		83	C	
JUN 27,87	JUN 26,87	900	900	****	****	1	7.8	1	31754	2	1		82		
JUL 2,87	JUL 1,87	900	900	****	****	1	6.0	1	31755	2	1		87		
JUL 3,87	JUL 2,87	900	900	****	****	1	3.4	1	31756	2	1		69		
JUL 8,87	JUL 7,87	900	900	****	****	1	4.0	1	31757	2	1		82		
JUL 10,87	JUL 9,87	900	900	****	****	1	4.8	1	31758	2	1		103		
JUL 11,87	JUL 10,87	900	900	****	****	1	6.0	1	31759	2	1		101		
JUL 12,87	JUL 11,87	900	900	****	****	1	7.2	1	31760	2	1		96		
JUL 15,87	JUL 14,87	900	900	****	****	1	3.6	1	31761	2	1		74		
JUL 16,87	JUL 15,87	900	900	****	****	1	6.0	1	31762	2	1		91		
JUL 17,87	JUL 16,87	900	900	****	****	1	7.4	1	31763	2	1		89		
JUL 19,87	JUL 18,87	900	900	1000	****	1	14.8	1	31764	2	1		99		
JUL 20,87	JUL 19,87	900	900	****	****	1	9.6	1	31765	2	1		92		
JUL 22,87	JUL 21,87	900	900	****	****	1	7.0	1	31766	2	1		96	C	
JUL 23,87	JUL 22,87	900	900	****	****	1	25.0	1	31767	2	1		100		
AUG 1,87	JUL 31,87	900	900	****	****	1	25.0	1	31768	2	1	U	211	AP	
AUG 4,87	AUG 3,87	900	900	****	****	1	6.0	1	31769	2	1		97		C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 2,87	JAN 1,87	102.0		8.7		******	UG	6.27		******		0.0186		1.15		0.39	
JAN 20,87	JAN 19,87	343.0		7.7		******		4.82		******		0.0298		0.40		0.21	
JAN 30,87	JAN 29,87	232.0		7.8		******		4.82		******		0.0299		0.30		0.23	
FEB 3,87	FEB 2,87	71.0		5.6		******		5.10		******		0.0224		0.35		0.16	
FEB 11,87	FEB 10,87	60.0		19.8		******	UG	6.79		******		0.0209		1.95		0.88	
FEB 14,87	FEB 13,87	93.0		18.6		******		4.68		******		0.0439		2.35		0.45	
FEB 22,87	FEB 21,87	310.0		19.8		******		4.60		******		0.0466		1.20		0.89	
FEB 24,87	FEB 23,87	194.0	UG	53.4		******		3.91		******	UG	0.1480		2.90	UG	1.58	
MAR 2,87	MAR 1,87	257.0		7.8		******		4.76		******		0.0316	<W	0.05		0.24	
MAR 24,87	MAR 23,87	388.0		31.3		******		4.85		******		0.0425	UG	6.65		0.88	
APR 1,87	MAR 31,87	147.0		17.8		******		4.46		******		0.0523		1.55		0.31	
APR 21,87	APR 20,87	******		******		******		******		******		******		******		******	
MAY 13,87	MAY 12,87	142.0	UG	31.3		******	UG	6.90		******		0.0337		3.95		0.93	
MAY 14,87	MAY 13,87	286.0		16.2		******		6.60		******	D	0.0263		2.05		0.48	
MAY 16,87	MAY 15,87	114.0		17.8		******	UG	6.95		******		0.0209		2.00		0.58	
MAY 19,87	MAY 18,87	1172.0		7.3		******	D	5.35		******	D	0.0252		0.80		0.17	
MAY 21,87	MAY 20,87	544.0		14.3		******		4.69		******		0.0356		1.60		0.40	
MAY 22,87	MAY 21,87	1230.0		******		******		******		******		******		******		******	
MAY 26,87	MAY 25,87	667.0		12.8		******		4.53		******		0.0392		1.35		0.15	
JUN 2,87	JUN 1,87	879.0		******		******		******		******		******		******		******	
JUN 4,87	JUN 3,87	562.0		******		******		******		******		******		******		******	
JUN 5,87	JUN 4,87	179.0		5.1		******	<=>	5.00		******		0.0216	<=>	0.50	<T	0.05	
JUN 6,87	JUN 5,87	151.0		19.4		******		4.81		******		0.0406		1.70		0.85	
JUN 24,87	JUN 23,87	263.0		9.0		******		5.12		******		0.0309		******		0.25	
JUN 27,87	JUN 26,87	411.0		7.0		******		4.98		******		0.0313		1.10		0.08	
JUL 2,87	JUL 1,87	338.0		11.0		******		4.94		******	D	0.0339	D	1.35		0.36	
JUL 3,87	JUL 2,87	152.0		4.0		******		5.15		******		0.0248		0.25		0.08	
JUL 8,87	JUL 7,87	212.0		9.5		******		5.09		******		0.0296		1.40		0.24	
JUL 10,87	JUL 9,87	319.0		8.5		******		5.25		******		0.0277		1.00		0.39	
JUL 11,87	JUL 10,87	392.0		8.0		******		4.93		******		0.0315		0.70		0.27	
JUL 12,87	JUL 11,87	445.0		6.0		******		5.07		******		0.0282		0.55		0.12	
JUL 15,87	JUL 14,87	171.0		3.0		******		5.32		******		0.0218		0.20		0.04	
JUL 16,87	JUL 15,87	352.0		9.0		******		4.95		******		0.0308		1.00		0.31	
JUL 17,87	JUL 16,87	426.0		5.0		******	D	6.00		******	D	0.0198		0.65		0.18	
JUL 19,87	JUL 18,87	940.0		10.0		******		4.91		******		0.0345		1.50		0.23	
JUL 20,87	JUL 19,87	570.0		5.5		******		5.10		******		0.0266		0.50		0.17	
JUL 22,87	JUL 21,87	432.0		12.5		******		4.91		******		0.0354		1.85		0.42	
JUL 23,87	JUL 22,87	1613.0		5.5		******		5.30		******		0.0231		0.85		0.15	
AUG 1,87	JUL 31,87	3392.0		5.5		******		5.61		******		0.0215		0.70		0.21	
AUG 4,87	AUG 3,87	376.0		3.0		******		5.59		******		0.0185		0.30		0.04	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14 PAGE : 3

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIUM MG/L		POTASSIUM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
JAN 2,87	JAN 1,87		0.28		0.07	<T	0.025		0.030		0.060		0.555	UG	0.0005
JAN 20,87	JAN 19,87	D	0.16		0.09	<T	0.010	<T	0.005	<T	0.025		0.040		0.0151
JAN 30,87	JAN 29,87		0.14		0.07	<T	0.005	<T	0.005	<T	0.025		0.045		0.0151
FEB 3,87	FEB 2,87	<T	0.10		0.10	<T	0.010		0.040		0.040		0.030		0.0079
FEB 11,87	FEB 10,87		1.02		0.35		0.200		0.045		0.175		1.100	UG	0.0002
FEB 14,87	FEB 13,87	!IS	******		0.24	!IS	******	!IS	******	!IS	******		0.615		0.0209
FEB 22,87	FEB 21,87		0.50		0.21		0.075		0.110		0.075		0.475		0.0251
FEB 24,87	FEB 23,87		0.22		0.29		0.030		0.045		0.110		0.685		0.1230
MAR 2,87	MAR 1,87	<T	0.05		0.10		0.015	<T	0.020		0.030		0.020		0.0174
MAR 24,87	MAR 23,87	UG	2.34		0.29		0.265	UG	0.505		0.110		0.600		0.0141
APR 1,87	MAR 31,87		0.36		0.08		0.040	<T	0.020		0.030		0.130		0.0347
APR 21,87	APR 20,87		******		******		******		******		******		******		******
MAY 13,87	MAY 12,87		1.14		0.25		0.260	UG	0.670	UG	0.250		2.000	UG	0.0001
MAY 14,87	MAY 13,87		1.00		0.09		0.205		0.115		0.120		0.735		0.0003
MAY 16,87	MAY 15,87		0.94		0.13		0.195	UG	0.305		0.080		0.950	UG	0.0001
MAY 19,87	MAY 18,87		0.22		0.06		0.035		0.030	<T	0.010	D	0.280	D	0.0045
MAY 21,87	MAY 20,87	<T	0.10		0.10	<T	0.010		0.030	<T	0.010		0.530		0.0204
MAY 22,87	MAY 21,87		******		******		******		******		******		******		******
MAY 26,87	MAY 25,87	<T	0.02	<T	0.05	<W	0.005		0.025	<W	0.005		0.115		0.0295
JUN 2,87	JUN 1,87		******		******		******		******		******		******		******
JUN 4,87	JUN 3,87		******		******		******		******		******		******		******
JUN 5,87	JUN 4,87	<W	0.02	<W	0.01	<W	0.005	<T	0.010	<W	0.005	<W	0.005	<=>	0.0100
JUN 6,87	JUN 5,87		0.58		0.25		0.080		0.155		0.080		0.715		0.0155
JUN 24,87	JUN 23,87		0.22		0.07		0.045		0.140		0.030		0.370		0.0076
JUN 27,87	JUN 26,87		0.20		0.04		0.035		0.045		0.045		0.065		0.0105
JUL 2,87	JUL 1,87	D	0.22		0.13		0.050		0.045	<T	0.010		0.385		0.0115
JUL 3,87	JUL 2,87	<T	0.04		0.02	<T	0.005	<T	0.005	<T	0.010		0.045		0.0071
JUL 8,87	JUL 7,87		0.24		0.37		0.055		0.125	UG	0.225		0.245		0.0081
JUL 10,87	JUL 9,87		0.14		0.06		0.030		0.030	<T	0.020		0.475		0.0056
JUL 11,87	JUL 10,87		0.22		0.08		0.030		0.035		0.040		0.145		0.0117
JUL 12,87	JUL 11,87	<T	0.08		0.06	<T	0.010		0.040		0.045		0.105		0.0085
JUL 15,87	JUL 14,87	<T	0.02		0.03	<W	0.005		0.025	<T	0.010	<T	0.005		0.0048
JUL 16,87	JUL 15,87		0.26		0.06		0.055		0.035	<T	0.025		0.215		0.0112
JUL 17,87	JUL 16,87		0.12		0.05	<T	0.025		0.065		0.035		0.275	D	0.0010
JUL 19,87	JUL 18,87		0.28		0.11		0.035		0.040		0.055	D	0.310		0.0123
JUL 20,87	JUL 19,87	<T	0.08		0.06	<T	0.015		0.035	<T	0.025		0.135		0.0079
JUL 22,87	JUL 21,87		0.32		0.11		0.040		0.035		0.050		0.480		0.0123
JUL 23,87	JUL 22,87		0.10		0.03	<T	0.015	<T	0.020	<T	0.015		0.250		0.0050
AUG 1,87	JUL 31,87		0.14		0.04	<T	0.025		0.030	<T	0.015		0.265		0.0025
AUG 4,87	AUG 3,87	<T	0.04		0.01	<T	0.015		0.025	<T	0.015		0.035		0.0026

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 05-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 12,87	AUG 11,87	900	900	****	****	1	47.0	1	31773	2	1	105		
AUG 14,87	AUG 13,87	900	900	****	****	1	0.1	1	31774	2	1	****	E	N
AUG 15,87	AUG 14,87	900	900	****	****	1	11.0	1	31775	2	1	104		
AUG 16,87	AUG 15,87	900	900	****	****	1	34.6	1	31776	2	1	97		
AUG 17,87	AUG 16,87	900	900	****	****	1	3.4	1	31777	2	1	88		
AUG 18,87	AUG 17,87	900	900	****	****	1	3.0	1	31778	2	1	86		N
AUG 20,87	AUG 19,87	900	900	****	****	1	****	1	31779	2	1	****		
AUG 22,87	AUG 21,87	900	900	****	****	1	****	1	31780	2	1	****		
AUG 26,87	AUG 25,87	900	900	****	****	1	****	1	31782	2	1	****		
AUG 30,87	AUG 29,87	900	900	****	****	1	****	1	31783	2	1	****		HN
SEP 4,87	SEP 3,87	900	900	****	****	1	3.8	1	31784	2	1	93		H
SEP 6,87	SEP 5,87	900	900	****	****	1	22.1	1	31785	2	1	94		
SEP 7,87	SEP 6,87	900	900	****	****	1	2.0	1	31786	2	1	31		NH
SEP 9,87	SEP 8,87	900	900	****	****	1	4.4	1	31787	2	1	81		
SEP 11,87	SEP 10,87	900	900	****	****	1	13.0	1	31788	2	1	98		
SEP 14,87	SEP 13,87	900	900	****	****	1	6.4	1	31789	2	1	91		
SEP 20,87	SEP 19,87	900	900	****	****	1	18.0	1	31790	2	1	93	A	
SEP 21,87	SEP 20,87	900	900	****	****	1	5.4	1	31791	2	1	92		
OCT 1,87	SEP 30,87	900	900	****	****	1	4.0	1	31792	2	1	104	A	
OCT 6,87	OCT 5,87	900	900	****	****	1	4.0	2	31793	2	1	124	C	NC
OCT 9,87	OCT 8,87	900	900	****	****	2	10.6	2	31794	2	1	53	C	N
OCT 16,87	OCT 15,87	900	900	****	****	1	3.8	2	31795	2	1	56	Q	
OCT 21,87	OCT 20,87	900	900	****	****	2	0.1	2	31796	2	1	****	EK	
OCT 23,87	OCT 22,87	900	900	****	****	2	3.0	2	31797	2	1	53		N
OCT 24,87	OCT 23,87	900	900	****	****	2	****	*	31798	2	1	****	P	HCN
OCT 27,87	OCT 26,87	900	900	****	****	3	3.4	2	31799	2	1	****	FKI	
NOV 3,87	NOV 2,87	900	900	****	****	1	0.1	2	31800	2	1	****	EK	
NOV 6,87	NOV 5,87	900	900	****	****	2	0.1	2	31801	2	1	****	EK	
NOV 17,87	NOV 16,87	900	900	****	****	3	11.4	2	31803	2	1	83		
DEC 1,87	NOV 30,87	900	900	****	****	2	0.1	2	31804	2	1	****	EK	
DEC 9,87	DEC 8,87	900	900	****	****	3	0.1	2	31805	2	1	****	EK	
DEC 10,87	DEC 9,87	900	900	****	****	2	0.6	2	31806	2	1	83		
DEC 11,87	DEC 10,87	900	900	****	****	2	4.0	2	31807	2	1	73		N
DEC 12,87	DEC 11,87	900	900	****	****	2	0.1	2	31808	2	1	****	EK	
DEC 13,87	DEC 12,87	900	900	****	****	2	3.8	2	31809	2	1	69		
DEC 14,87	DEC 13,87	900	900	****	****	2	0.1	2	31810	2	1	****	EK	
DEC 15,87	DEC 14,87	900	900	****	****	2	1.0	2	31811	2	1	49		N
DEC 21,87	DEC 20,87	900	900	****	****	2	2.4	2	31812	2	1	44		N
DEC 31,87	DEC 30,87	900	900	****	****	2	3.4	2	31813	2	1	76		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM 814 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 12,87	AUG 11,87	3179.0		6.0		******		5.19		******		0.0250		0.75		0.12
AUG 14,87	AUG 13,87	******		******		******		******		******		******		******		******
AUG 15,87	AUG 14,87	738.0		11.5		******		4.59		******		0.0442		1.35		0.11
AUG 16,87	AUG 15,87	2163.0		6.0		******		5.11		******		0.0248		0.50		0.15
AUG 17,87	AUG 16,87	192.0		7.0		******		5.00		******		0.0294		0.60		0.14
AUG 18,87	AUG 17,87	166.0		4.0		******		5.21		******		0.0269		0.45	<T	0.03
AUG 20,87	AUG 19,87	340.0		7.5		******		5.39		******		0.0225		1.15		0.15
AUG 22,87	AUG 21,87	420.0		19.0		******		4.50		******	UG	0.0530		1.90		0.40
AUG 26,87	AUG 25,87	323.0		9.5		******		4.72		******		0.0373		1.10		0.06
AUG 30,87	AUG 29,87	393.0		3.5		******		5.52		******		0.0206		0.50		0.07
SEP 4,87	SEP 3,87	227.0		14.0		******		5.21		******		0.0301		1.90		0.50
SEP 6,87	SEP 5,87	1343.0		6.5		******		5.16		******		0.0257		0.85		0.16
SEP 7,87	SEP 6,87	41.0		18.0		******		5.71		******		0.0244		3.15		0.61
SEP 9,87	SEP 8,87	230.0		6.5		******		6.14		******		0.0199		0.70		0.18
SEP 11,87	SEP 10,87	818.0	D	6.0		******		5.36		******		0.0218	D	0.75		0.17
SEP 14,87	SEP 13,87	375.0		3.0		******		5.39		******		0.0257		0.40	<T	0.04
SEP 20,87	SEP 19,87	1083.0		14.0		******	D	4.52		******		0.0488		1.35		0.12
SEP 21,87	SEP 20,87	320.0		5.0		******		5.03		******		0.0263		0.45	<T	0.05
OCT 1,87	SEP 30,87	269.0		6.0		******		6.54		******		0.0166		1.55		0.28
OCT 6,87	OCT 5,87	319.0	LG	2.0		******		5.99		******		0.0168		0.70	<T	0.04
OCT 9,87	OCT 8,87	361.0		10.0		******	UG	7.21		******	D	0.0128		1.50		0.57
OCT 16,87	OCT 15,87	138.0		15.0		******		4.50		******	UG	0.0571		2.30		0.29
OCT 21,87	OCT 20,87	******		******		******		******		******		******		******		******
OCT 23,87	OCT 22,87	102.0		5.0		******		4.98		******		0.0346		0.75		0.13
OCT 24,87	OCT 23,87	67.0	LG	2.0		******		5.43		******		0.0190		0.50		0.08
OCT 27,87	OCT 26,87	******		******		******		******		******		******		******		******
NOV 3,87	NOV 2,87	******		******		******		******		******		******		******		******
NOV 6,87	NOV 5,87	******		******		******		******		******		******		******		******
NOV 17,87	NOV 16,87	613.0		15.0		******		4.49		******		0.0567		1.65		0.34
DEC 1,87	NOV 30,87	******		******		******		******		******		******		******		******
DEC 9,87	DEC 8,87	******		******		******		******		******		******		******		******
DEC 10,87	DEC 9,87	32.0		7.5		******		4.89		******		0.0233		1.35		0.09
DEC 11,87	DEC 10,87	188.0		7.5		******		5.25		******		0.0264		0.80		0.35
DEC 12,87	DEC 11,87	******		******		******		******		******		******		******		******
DEC 13,87	DEC 12,87	170.0		7.5		******		4.77		******		0.0338		0.50		0.19
DEC 14,87	DEC 13,87	******		******		******		******		******		******		******		******
DEC 15,87	DEC 14,87	32.0		15.5		******		4.45		******		0.0368		0.65		0.43
DEC 21,87	DEC 20,87	69.0		10.0		******		5.01		******		0.0392		0.80		0.39
DEC 31,87	DEC 30,87	167.0		22.0		******		4.35		******		0.0661		0.75		0.75

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 12,87	AUG 11,87	0.12	0.05	<T 0.015	<T 0.010	<T 0.010	0.190	0.0065
AUG 14,87	AUG 13,87	******	******	******	******	******	******	******
AUG 15,87	AUG 14,87	<T 0.06	<T 0.04	<T 0.015	0.030	<T 0.010	0.115	0.0257
AUG 16,87	AUG 15,87	<T 0.04	<T 0.04	<T 0.010	<T 0.010	<T 0.020	0.150	0.0078
AUG 17,87	AUG 16,87	<T 0.06	0.10	<T 0.015	0.045	0.060	0.085	0.0100
AUG 18,87	AUG 17,87	<T 0.02	<T 0.04	<T 0.005	<T 0.015	0.025	<W 0.005	0.0062
AUG 20,87	AUG 19,87	0.18	0.06	0.050	0.040	0.030	0.250	0.0041
AUG 22,87	AUG 21,87	0.30	0.06	0.045	0.045	0.035	0.345	0.0316
AUG 26,87	AUG 25,87	<T 0.08	<W 0.01	<T 0.025	<T 0.020	<T 0.010	LG 0.030	0.0191
AUG 30,87	AUG 29,87	<W 0.02	<W 0.01	<T 0.005	0.050	<T 0.020	0.110	0.0030
SEP 4,87	SEP 3,87	0.44	0.07	0.050	0.100	0.030	0.710	0.0062
SEP 6,87	SEP 5,87	0.20	<T 0.04	0.025	0.030	<T 0.015	0.175	0.0069
SEP 7,87	SEP 6,87	0.88	0.14	0.190	0.190	0.095	0.775	0.0019
SEP 9,87	SEP 8,87	!IS ******	<T 0.04	!IS ******	!IS ******	!IS ******	!IS ******	0.0007
SEP 11,87	SEP 10,87	0.20	0.08	0.040	0.030	<T 0.020	0.155	0.0044
SEP 14,87	SEP 13,87	<T 0.04	0.09	<T 0.005	0.040	0.050	0.050	0.0041
SEP 20,87	SEP 19,87	0.14	<T 0.04	<T 0.020	0.025	<T 0.015	<T 0.025	D 0.0302
SEP 21,87	SEP 20,87	<T 0.02	<W 0.01	<W 0.005	<T 0.015	<W 0.005	<T 0.020	0.0093
OCT 1,87	SEP 30,87	0.58	0.06	0.120	0.095	0.070	0.320	0.0003
OCT 6,87	OCT 5,87	0.18	<T 0.02	0.035	<T 0.020	0.030	0.085	0.0010
OCT 9,87	OCT 8,87	1.16	0.16	0.255	0.100	0.045	0.455	UG 0.0001
OCT 16,87	OCT 15,87	0.50	<T 0.04	0.085	0.030	<T 0.025	0.160	0.0316
OCT 21,87	OCT 20,87	******	******	******	******	******	******	******
OCT 23,87	OCT 22,87	<T 0.08	<T 0.01	<T 0.010	<T 0.015	0.055	<T 0.025	0.0105
OCT 24,87	OCT 23,87	<T 0.06	0.15	<T 0.010	<T 0.010	0.110	<T 0.005	0.0037
OCT 27,87	OCT 26,87	******	******	******	******	******	******	******
NOV 3,87	NOV 2,87	******	******	******	******	******	******	******
NOV 6,87	NOV 5,87	******	******	******	******	******	******	******
NOV 17,87	NOV 16,87	<T 0.10	<T 0.04	<W 0.005	<T 0.015	<T 0.010	0.300	0.0324
DEC 1,87	NOV 30,87	******	******	******	******	******	******	******
DEC 9,87	DEC 8,87	******	******	******	******	******	******	******
DEC 10,87	DEC 9,87	!IS ******	0.10	!IS ******	!IS ******	!IS ******	0.600	0.0129
DEC 11,87	DEC 10,87	0.22	0.11	0.040	<T 0.020	0.105	0.210	0.0056
DEC 12,87	DEC 11,87	******	******	******	******	******	******	******
DEC 13,87	DEC 12,87	<T 0.02	0.08	<T 0.005	<W 0.005	0.045	<T 0.020	0.0170
DEC 14,87	DEC 13,87	******	******	******	******	******	******	******
DEC 15,87	DEC 14,87	!IS ******	0.12	!IS ******	!IS ******	!IS ******	<T 0.005	0.0355
DEC 21,87	DEC 20,87	0.28	0.19	0.035	0.025	0.130	0.175	0.0098
DEC 31,87	DEC 30,87	!IS ******	0.13	!IS ******	!IS ******	!IS ******	0.130	0.0447

PART V

SOUTHEASTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 3,87	JAN 2,87	800	700	1300	2300	2	9.6	2	54097	2	1	72		
JAN 8,87	JAN 7,87	600	900	700	1600	2	1.7	2	54098	2	1	149		N
JAN 9,87	JAN 8,87	900	900	1400	900	2	****	2	54099	2	1	****	E	
JAN 10,87	JAN 9,87	900	800	500	800	2	1.9	2	54100	2	1	94		
JAN 11,87	JAN 10,87	800	800	800	1100	2	3.6	2	54101	2	1	76		
JAN 12,87	JAN 11,87	800	800	1800	600	3	1.0	2	54103	2	1	113		
JAN 16,87	JAN 15,87	600	1000	700	1400	1	2.3	2	54105	2	1	153		N
JAN 19,87	JAN 18,87	700	800	900	1900	2	7.9	2	54106	2	1	80		J
JAN 21,87	JAN 20,87	630	630	2000	300	2	3.2	2	54107	2	1	100		
JAN 23,87	JAN 22,87	630	630	1600	630	2	9.6	2	54108	2	1	84		CN
JAN 24,87	JAN 23,87	630	630	630	1500	2	0.3	2	54109	2	1	52		
JAN 28,87	JAN 27,87	630	830	1400	2300	2	****	2	54110	2	1	****	E	
JAN 29,87	JAN 28,87	830	900	1100	1900	2	****	2	54111	2	1	****	E	
JAN 31,87	JAN 30,87	800	900	1000	900	2	8.8	2	54112	2	1	83		C
FEB 3,87	FEB 2,87	900	930	1100	930	3	3.5	2	54113	2	1	100		
FEB 4,87	FEB 3,87	930	930	930	930	3	0.3	2	54114	2	1	265		N
FEB 5,87	FEB 4,87	930	830	1500	200	2	0.3	2	54115	2	1	379		NC
FEB 7,87	FEB 6,87	830	900	1700	7100	2	1.0	2	54116	2	1	137		N
FEB 9,87	FEB 8,87	900	900	1100	300	2	27.2	2	54117	2	1	74		
FEB 13,87	FEB 12,87	900	630	1900	300	2	1.3	2	54118	2	1	111		
MAR 1,87	FEB 28,87	800	900	****	****	3	14.4	2	54120	2	1	50		C
MAR 3,87	MAR 1,87	900	900	1000	2100	3	24.2	2	57058	2	1	88	E	Z
MAR 4,87	MAR 3,87	900	600	1700	2300	2	0.6	2	57059	2	1	****	E	N
MAR 28,87	MAR 27,87	800	630	1900	300	1	0.2	2	57060	2	1	****	E	N
MAR 31,87	MAR 30,87	800	830	1100	830	1	9.0	2	57061	2	1	120		NT
APR 1,87	MAR 31,87	830	900	830	100	3	13.8	2	57062	2	1	79		
APR 2,87	APR 1,87	900	900	300	900	2	2.2	2	57063	2	1	92		
APR 3,87	APR 2,87	900	900	900	1500	3	3.7	2	57064	2	1	****	E	N
APR 4,87	APR 3,87	900	730	300	730	1	9.2	2	57065	2	1	67		
APR 5,87	APR 4,87	730	730	730	1800	1	10.0	2	57066	2	1	100		
APR 6,87	APR 5,87	730	800	1400	800	1	2.2	2	57067	2	1	173		N
APR 7,87	APR 6,87	800	800	800	2400	1	1.5	2	57068	2	1	173		NC
APR 8,87	APR 7,87	800	800	500	800	1	0.2	2	57069	2	1	436		N
APR 13,87	APR 12,87	800	800	100	600	1	****	1	54122	2	1	****	P	C
APR 24,87	APR 23,87	800	1200	900	100	1	12.1	1	54123	2	1	120		N
APR 28,87	APR 27,87	600	600	2300	600	3	5.6	1	54124	2	1	110	CD	
APR 30,87	APR 29,87	700	700	****	****	1	6.4	1	54125	2	1	111	D	
MAY 5,87	MAY 4,87	800	1100	****	****	1	0.1	1	54126	2	1	****	E	N
MAY 12,87	MAY 11,87	700	630	730	1100	1	6.4	1	69001	2	1	100	CD	JH
MAY 15,87	MAY 14,87	800	900	2200	500	1	8.2	1	69002	2	1	99	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JAN 3,87	JAN 2,87	449.0		7.7		4.50		4.81		******		0.0300	LG	0.25		0.25
JAN 8,87	JAN 7,87	163.0		67.0		3.81		3.95		******		0.1310		3.70		2.45
JAN 9,87	JAN 8,87	2.0		******		******		******		******		******		******		******
JAN 10,87	JAN 9,87	115.0		21.1		******		4.39		******		0.0557		1.50		0.43
JAN 11,87	JAN 10,87	176.0		29.5		4.25		4.45		******		0.0535		3.20		0.94
JAN 12,87	JAN 11,87	73.0		7.8		******	UG	5.45		******		0.0183		0.80		0.32
JAN 16,87	JAN 15,87	226.0	>	100.0		3.66		3.77		******		0.2220		4.45		2.75
JAN 19,87	JAN 18,87	409.0		17.6		3.76		4.65		******		0.0423		0.90		0.56
JAN 21,87	JAN 20,87	207.0		59.9		3.91		3.99		******		0.1450		2.60		1.42
JAN 23,87	JAN 22,87	519.0		8.3	D	4.80		4.97		******		0.0295	LG	0.20		0.26
JAN 24,87	JAN 23,87	10.0		10.1		******		4.80		******		0.0352	LG	0.10		0.33
JAN 28,87	JAN 27,87	1.0		******		******		******		******		******		******		******
JAN 29,87	JAN 28,87	3.0		******		******		******		******		******		******		******
JAN 31,87	JAN 30,87	473.0		81.1		******		4.16		******		0.1030		1.95		0.98
FEB 3,87	FEB 2,87	225.0		70.2		4.01		4.07		******		0.1290		5.55		2.68
FEB 4,87	FEB 3,87	51.0		12.1		******		4.97		******		0.0313		1.40		0.32
FEB 5,87	FEB 4,87	73.0	LG	4.8		******	UG	6.68		******	LG	0.0138	LG	0.35	LG	0.05
FEB 7,87	FEB 6,87	88.0		78.9		******		3.91		******		0.1650		4.10		2.60
FEB 9,87	FEB 8,87	1300.0		13.0	D	4.98	D	5.09		******		0.0279		1.00		0.54
FEB 13,87	FEB 12,87	93.0		25.6		******		4.36		******		0.0689	LG	0.25		1.12
MAR 1,87	FEB 28,87	464.0		8.1		******	B	5.28		******	D	0.0216		0.75		0.22
MAR 3,87	MAR 1,87	1374.0		9.5		******		4.79		******		0.0277		0.90		0.18
MAR 4,87	MAR 3,87	******		******		******		******		******		******		******		******
MAR 28,87	MAR 27,87	******		******		******		******		******		******		******		******
MAR 31,87	MAR 30,87	698.0		18.5		******	D	4.41		******		0.0368	D	1.70		0.31
APR 1,87	MAR 31,87	702.0		16.5		******		4.41		******		0.0955		1.75		0.13
APR 2,87	APR 1,87	131.0		[illegible].0		******		4.37		******		0.0917		1.05		0.37
APR 3,87	APR 2,87	******		******		******		******		******		******		******		******
APR 4,87	APR 3,87	399.0		27.0		******		4.25		******		0.0837		1.80		0.49
APR 5,87	APR 4,87	645.0		9.5		******		4.68		******	D	0.0661		0.65		0.11
APR 6,87	APR 5,87	245.0		17.5		******		4.39		******		0.0633		1.55		0.21
APR 7,87	APR 6,87	167.0		8.5		******		4.50		******		0.0738		1.70	LG	0.09
APR 8,87	APR [illegible],87	56.0		15.0		******		4.43		******		0.0763		1.65		0.23
APR 13,87	APR 12,87	40.0		60.0		******		3.75		******		0.2120		5.60		1.30
APR 24,87	APR 23,87	937.0		65.0		******		3.72		******	D	0.2300		6.05		1.01
APR 28,87	APR 27,87	397.0		25.0		******		4.33		******		0.1340		1.20		0.64
APR 30,87	APR 29,87	457.0	D	14.0		******	D	4.82		******		0.0442	D	2.00		0.49
MAY 5,87	MAY 4,87	******		******		******		******		******		******		******		******
MAY 12,87	MAY 11,87	414.0		31.1		3.93		4.60		******		0.0911		7.45	<T	0.05
MAY 15,87	MAY 14,87	523.0		39.9		3.68		4.01		******		0.1170		3.40		0.45

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM 011 PAGE : 3

RETRIEVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
JAN 5,87	JAN 3,87		0.10		0.08	<T	0.005	<M	0.005	<T	0.010	<T	0.005		0.0155
JAN 8,87	JAN 7,87		1.06		0.40		0.055		0.010		0.110		0.665		0.1122
JAN 9,87	JAN 8,87		******		******		******		******		******		******		******
JAN 10,87	JAN 9,87		0.12		0.06	<T	0.010	<T	0.010	<T	0.020		0.165		0.0407
JAN 11,87	JAN 10,87		1.50		0.16		0.035		0.055		0.065		0.315		0.0355
JAN 12,87	JAN 11,87		0.62		0.13	<T	0.020	<T	0.010		0.065		0.055	LM	0.0035
JAN 16,87	JAN 15,87		0.72		0.33	<T	0.020		0.045		0.070		1.550		0.1698
JAN 19,87	JAN 18,87		0.56		0.20		0.035	<T	0.010		0.065		0.100		0.0224
JAN 22,87	JAN 20,87		0.30		0.57	<T	0.020	<T	0.015		0.210		0.460		0.1023
JAN 23,87	JAN 22,87		0.16	D	0.06	<M	0.005	<M	0.005	<T	0.010	<T	0.005		0.0107
JAN 26,87	JAN 25,87	TIS	******		0.08	TIS	******	TIS	******	TIS	******	LG	0.005		0.0158
JAN 28,87	JAN 27,87		******		******		******		******		******		******		******
JAN 29,87	JAN 28,87		******		******		******		******		******		******		******
JAN 31,87	JAN 30,87		0.32		0.17	<T	0.010	<T	0.010		0.035		0.290		0.0692
FEB 3,87	FEB 2,87		1.04		0.56		0.075		0.070		0.215		1.750		0.0851
FEB 6,87	FEB 5,87		0.80		0.13	<T	0.015	<T	0.010		0.060	<T	0.005		0.0107
FEB 8,87	FEB 6,87		0.56		0.15	<T	0.015	<T	0.010		0.090	<M	0.005	LM	0.0002
FEB 9,87	FEB 8,87		1.76		1.57		0.170	<T	0.010	LM	0.885		0.795		0.1230
FEB 9,87	FEB 9,87	D	0.58		0.16	<T	0.010	<T	0.010		0.025		0.340	D	0.0081
FEB 13,87	FEB 12,87		0.88		0.36	<T	0.020	<M	0.005		0.115	<T	0.005		0.0457
FEB 16,87	FEB 15,87	D	0.46	<T	0.05	<T	0.010	<T	0.005	<T	0.015		0.040	D	0.0051
FEB 17,87	FEB 16,87		0.16	<T	0.04	<T	0.005	<M	0.005	<T	0.010		0.105		0.0161
FEB 20,87	FEB 19,87		******		******		******		******		******		******		******
FEB 23,87	FEB 22,87		******		******		******		******		******		******		******
FEB 25,87	FEB 24,87	D	0.46		0.13	D	0.035	<M	0.005	D	0.090	D	0.035	D	0.0100
FEB 26,87	FEB 25,87		0.20	<T	0.05	<T	0.005	<M	0.005	<T	0.010		0.035		0.0169
FEB 27,87	FEB 26,87		0.24		0.10	<T	0.015	<M	0.005	<T	0.015	<M	0.005		0.0427
MAR 2,87	FEB 27,87		******		******		******		******		******		******		******
MAR 5,87	MAR 3,87		0.16		0.06		0.030	<M	0.005		0.125	<M	0.005		0.0563
MAR 6,87	MAR 5,87	<T	0.24	D	0.08	D	0.025	<M	0.005	D	0.225	<M	0.005		0.0290
MAR 8,87	MAR 6,87		0.16		0.02		0.010	<M	0.005		0.100	<T	0.015		0.0407
MAR 9,87	MAR 8,87		0.12		0.08	<T	0.020	<M	0.005		0.035	<M	0.005		0.0316
MAR 12,87	MAR 9,87		0.12		0.07	<T	0.020	<M	0.005		0.035		0.190		0.0372
MAR 13,87	MAR 12,87		1.22		0.46		0.170	<T	0.015		0.075	<T	0.105		0.1770
MAR 14,87	MAR 13,87		0.36	D	0.06	D	0.035	D	0.035		0.050	D	0.160		0.1905
MAR 15,87	MAR 14,87	D	0.42	D	0.17		0.110		0.100	D	0.105		0.260		0.0440
MAR 20,87	MAR 19,87		0.42		0.25		0.080	D	0.030		0.070	D	0.300	D	0.0151
MAR 23,87	MAR 22,87		******		******		******		******		******		******		******
MAR 26,87	MAR 25,87		1.70		0.30		0.280		0.150		0.090		0.515		0.0251
MAR 28,87	MAR 26,87		0.28		0.07		0.025		0.025	<T	0.010	D	0.060		0.0077

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
MAY 17,87	MAY 16,87	U	1.10	U	3.00	U	0.185	U	0.035	U	0.030	U	0.145	U	0.1318
MAY 21,87	MAY 20,87		1.04		0.20		0.170		0.030		0.050		0.060		0.1905
MAY 23,87	MAY 22,87		0.58		0.45		0.155		0.050		0.135		0.395		0.3162
MAY 25,87	MAY 24,87		0.54		0.34		0.055		0.090		0.060		1.050		0.2188
MAY 27,87	MAY 26,87		0.10		0.10	<T	0.010	<T	0.010		0.030	D	0.165		0.1995
MAY 28,87	MAY 27,87		0.38	D	0.85		0.070		0.035	D	0.085		0.350		0.2239
MAY 29,87	MAY 28,87	<T	0.04		0.10	<T	0.005		0.080	<T	0.025		0.190		0.0589
JUN 1,87	MAY 31,87		0.10	<T	0.05	<T	0.005	<T	0.010	<T	0.020	B	0.035		0.0479
JUN 3,87	JUN 2,87		0.68		0.20		0.110		0.080		0.160	<W	0.005		0.1259
JUN 4,87	JUN 3,87	<T	0.06		0.20	<T	0.010		0.040		0.025	D	0.115		0.2188
JUN 6,87	JUN 5,87		0.10	<T	0.05	<T	0.010		0.030	<T	0.005	<W	0.005		0.0224
JUN 8,87	JUN 7,87		0.50		0.10		0.065		0.035	<T	0.020		0.595		0.0617
JUN 9,87	JUN 8,87		0.18		0.10	<T	0.020	<T	0.015	<T	0.020		0.125		0.0355
JUN 10,87	JUN 9,87	<W	0.02	<W	0.01	<W	0.005	<W	0.005	<T	0.015	<T	0.010	D	0.0129
JUN 12,87	JUN 11,87		0.20		0.15	<T	0.020		0.055		0.025	D	0.220		0.1622
JUN 13,87	JUN 12,87		0.30	<T	0.05		0.035		0.025		0.065		0.210		0.0550
JUN 17,87	JUN 16,87	!IS	******		0.90	!IS	******	!IS	******	!IS	******	<W	0.005		0.0468
JUN 23,87	JUN 22,87		1.08		0.90		0.210	<W	0.005		0.040	<T	0.010		0.1230
JUN 27,87	JUN 26,87		0.12		0.90	<T	0.020	<T	0.010		0.025		0.270		0.2138
JUN 29,87	JUN 28,87	!IS	******		0.90	!IS	******	!IS	******	!IS	******	<T	0.025		0.0676
JUN 30,87	JUN 29,87		******		******		******		******		******		******		******
JUL 3,87	JUL 2,87		******		******		******		******		******		******		******
JUL 4,87	JUL 3,87		******		******		******		******		******		******		******
JUL 15,87	JUL 14,87		0.14	<T	0.01	<T	0.025	<T	0.010	<T	0.015	<T	0.010		0.0380
JUL 19,87	JUL 18,87		0.34		0.13		0.035	<T	0.005	<T	0.020		0.385		0.0562
JUL 25,87	JUL 24,87		1.38		0.27		0.180		0.045		0.040		0.950		0.1349
AUG 3,87	AUG 2,87		0.10		0.17	<T	0.020	<T	0.010	<T	0.015		0.435		0.1479
AUG 5,87	AUG 4,87		0.18		0.14	<T	0.020	<T	0.025	<T	0.010		0.210		0.0501
AUG 10,87	AUG 9,87		0.14		0.09		0.025		0.030	<W	0.005	<W	0.005		0.0468
AUG 18,87	AUG 17,87		0.84		0.24		0.185		0.025		0.055		0.325		0.1000
AUG 20,87	AUG 19,87		0.98	!CR	******		0.125		0.030	<T	0.020		0.165		0.0380
AUG 22,87	AUG 21,87	<T	0.06	!CR	******	<T	0.005	<T	0.015	<W	0.005	LG	0.040	D	0.0195
AUG 23,87	AUG 22,87		0.28		0.14		0.025	<T	0.020		0.030	<T	0.015		0.0245
AUG 26,87	AUG 25,87		0.76	!IS	******		0.155		0.035		0.025	<T	0.010		0.0030
AUG 29,87	AUG 28,87	<T	0.08	<T	0.01	<T	0.015	<T	0.010	<W	0.005	LG	0.030		0.0209
SEP 1,87	AUG 31,87		0.24		0.31	D	0.040		0.040	<T	0.010	D	0.470		0.1000
SEP 9,87	SEP 8,87	<T	0.02	<W	0.01	<W	0.005	<T	0.005	<T	0.015	LG	0.035		0.0110
SEP 10,87	SEP 9,87		0.22		0.15	<T	0.020	<T	0.005		0.035		0.295		0.0813
SEP 12,87	SEP 11,87		0.32		0.35		0.050		0.060		0.035		1.450		0.2692
SEP 13,87	SEP 12,87	<T	0.06		0.25	<T	0.005	<T	0.010		0.030		0.235		0.1862

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 14,87	SEP 13,87	630	630	1100	1600	1	****	1	54162	2	1	****		
SEP 18,87	SEP 17,87	800	900	1700	900	1	****	1	54163	2	1	****		
SEP 19,87	SEP 18,87	900	630	900	2100	1	8.4	1	54164	2	1	94		
SEP 20,87	SEP 19,87	630	630	1000	500	1	20.6	1	54165	2	1	93		M
SEP 23,87	SEP 22,87	630	630	2300	500	1	2.6	1	54166	2	1	97		M
SEP 24,87	SEP 23,87	630	630	2300	500	1	3.8	1	54167	2	1	95		
SEP 28,87	SEP 27,87	630	730	2200	400	1	2.4	1	54168	2	1	95		
SEP 30,87	SEP 29,87	700	615	2000	400	1	15.7	1	54169	2	1	96		
OCT 3,87	OCT 2,87	700	900	1000	2100	1	24.9	1	54170	2	1	100		
OCT 7,87	OCT 6,87	800	900	1900	600	1	11.2	1	54171	2	1	93		
OCT 8,87	OCT 7,87	900	630	1400	600	1	4.6	1	54172	2	1	83		M
OCT 9,87	OCT 8,87	630	900	800	1600	1	2.0	1	54173	2	1	72		
OCT 10,87	OCT 9,87	900	800	1000	1200	1	0.4	#	54174	2	1	****	E	N
OCT 18,87	OCT 17,87	800	900	1900	200	1	2.0	1	54175	2	1	90		
OCT 21,87	OCT 20,87	800	1000	1800	2300	1	9.3	1	54176	2	1	101		
OCT 23,87	OCT 22,87	800	600	100	600	1	5.0	1	54177	2	1	185		N
OCT 24,87	OCT 23,87	600	700	600	1400	1	6.0	2	54178	2	1	60		
OCT 25,87	OCT 24,87	700	800	2300	500	1	7.4	2	54179	2	1	120		N
OCT 28,87	OCT 27,87	800	800	1400	2300	1	7.2	2	54180	2	1	114		
OCT 31,87	OCT 30,87	800	800	1400	2200	1	1.7	2	54181	2	1	180		N
NOV 3,87	NOV 2,87	800	1000	200	1000	1	4.0	2	54182	2	1	U 119	G	
NOV 4,87	NOV 3,87	1000	1000	1000	1300	1	3.0	2	54183	2	1	112		
NOV 6,87	NOV 5,87	600	900	1700	2400	3	8.7	2	54184	2	1	117		C
NOV 7,87	NOV 6,87	900	1000	2000	500	2	1.8	2	54185	2	1	62		HCM
NOV 9,87	NOV 8,87	500	1000	600	400	1	19.8	2	54186	2	1	100		
NOV 18,87	NOV 17,87	600	900	630	2300	1	19.0	2	54187	2	1	U 68	G	
NOV 20,87	NOV 19,87	900	900	100	600	1	0.3	2	54189	2	1	249		N
NOV 26,87	NOV 25,87	900	900	1000	100	3	33.4	2	54190	2	1	****	G	
NOV 30,87	NOV 29,87	600	900	800	400	1	54.4	2	54191	2	1	****	G	
DEC 2,87	DEC 1,87	700	630	1600	630	2	1.0	2	54193	2	1	****	EIK	
DEC 4,87	DEC 3,87	630	630	630	630	2	0.9	2	54194	2	1	71		
DEC 5,87	DEC 4,87	630	630	630	1000	2	1.0	2	54195	2	1	****	EIK	
DEC 9,87	DEC 8,87	800	800	1000	300	1	0.3	2	54196	2	1	119		
DEC 11,87	DEC 10,87	800	700	1600	400	1	4.8	2	54197	2	1	****	GE	
DEC 17,87	DEC 15,87	630	630	1200	1500	3	36.4	2	54198	2	1	88		Y2

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
SEP 14,87	SEP 13,87	471.0	D	46.0		3.94		4.05		******		0.1280	D	4.70		0.68
SEP 18,87	SEP 17,87	56.0		86.0		******		3.82		******		0.2090		8.20		1.10
SEP 19,87	SEP 18,87	507.0	!IR	******		4.56		4.69		******		0.0419		1.35		0.10
SEP 20,87	SEP 19,87	1238.0		7.0		4.67		4.82		******		0.0338		0.70		0.12
SEP 23,87	SEP 22,87	162.0		18.0		4.49		4.50		******		0.0574		1.70		0.57
SEP 24,87	SEP 23,87	233.0		13.0		4.51		4.57		******		0.0507		1.70	<W	******
SEP 28,87	SEP 27,87	147.0		48.0	D	3.99		4.09		******		0.1270		4.85		1.00
SEP 30,87	SEP 29,87	975.0		33.0		4.13		4.23		******		0.0975		3.40		0.51
OCT 3,87	OCT 2,87	1605.0		15.0		4.52		4.67		******		0.0466	D	2.05		0.34
OCT 7,87	OCT 6,87	671.0		36.0		4.15		4.16		******		0.1050		2.80		0.71
OCT 8,87	OCT 7,87	246.0		19.0		4.31	D	4.41		******	D	0.0649		1.80		0.38
OCT 9,87	OCT 8,87	93.0	!IR	******		4.54		4.69		******		0.0414		1.25		0.08
OCT 10,87	OCT 9,87	******		******		******		******		******		******		******		******
OCT 18,87	OCT 17,87	116.0		89.0		3.62		3.64		******		0.2670		6.70		2.20
OCT 21,87	OCT 20,87	608.0		65.0		3.76		3.78		******		0.2010		5.35		1.60
OCT 23,87	OCT 22,87	596.0		31.0		4.03		4.09		******		0.1030		2.35		0.79
OCT 24,87	OCT 23,87	233.0		40.0		3.87		4.02		******		0.1190		3.05		1.23
OCT 25,87	OCT 24,87	571.0		60.0		3.73		3.83		******		0.1780		4.80		1.57
OCT 28,87	OCT 27,87	527.0		22.0		4.07		4.22		******		0.0823		1.50		0.57
OCT 31,87	OCT 30,87	197.0		70.0		3.72		3.79		******		0.1960		3.60		2.80
NOV 3,87	NOV 2,87	307.0		69.0		3.68		3.75		******		0.2080		5.60		1.30
NOV 4,87	NOV 3,87	216.0		42.0		3.89		4.00		******		0.1270		4.45		0.82
NOV 6,87	NOV 5,87	658.0		7.0		4.53		4.70		******		0.0384		0.95		0.20
NOV 7,87	NOV 6,87	72.0	<T	0.5		******	UG	5.49		******		0.0183	<T	0.20	<T	0.01
NOV 9,87	NOV 8,87	1271.0		26.0		4.01		4.22		******		0.0689		1.95		0.73
NOV 18,87	NOV 17,87	830.0		9.0		4.43		4.68		******		0.0383		0.90		0.25
NOV 20,87	NOV 19,87	48.0		83.0		******		3.73		******		0.2370		3.40		3.00
NOV 26,87	NOV 25,87	******		******		******		******		******		******		******		******
NOV 30,87	NOV 29,87	******		******		******		******		******		******		******		******
DEC 2,87	DEC 1,87	******		******		******		******		******		******		******		******
DEC 4,87	DEC 3,87	41.0		40.0		******		4.11		******		0.1190		1.10		1.08
DEC 5,87	DEC 4,87	******		******		******		******		******		******		******		******
DEC 9,87	DEC 8,87	23.0		21.0		******		4.41		******		0.0804		1.50		0.38
DEC 11,87	DEC 10,87	******		******		******		******		******		******		******		******
DEC 17,87	DEC 15,87	2066.0		19.5		******		4.39		******		0.0645		1.15		0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
SEP 14,87	SEP 13,87	<T 0.08		0.14	<T	0.010	<T	0.015	<T	0.015		0.440		0.0891
SEP 18,87	SEP 17,87	0.24	UG	1.86		0.045	<W	0.005		0.050	!IS	******		0.1514
SEP 19,87	SEP 18,87	<T 0.04	<W	******	<T	0.010	<T	0.010	<T	0.015		0.055		0.0204
SEP 20,87	SEP 19,87	<W 0.02	<W	******	<W	0.005	<T	0.010	<T	0.015	<T	0.010		0.0151
SEP 23,87	SEP 22,87	0.44		0.13		0.040	<T	0.020	<T	0.010		0.070		0.0316
SEP 24,87	SEP 23,87	<T 0.08		0.11	<T	0.015		0.045	<T	0.020	LB	0.020		0.0269
SEP 28,87	SEP 27,87	0.82		0.25		0.095		0.090		0.025		0.370		0.0813
SEP 30,87	SEP 29,87	0.22		0.14	<T	0.020	<T	0.020		0.030		0.260		0.0589
OCT 3,87	OCT 2,87	0.42		0.11		0.035	<T	0.025	<T	0.025	D	0.190		0.0214
OCT 7,87	OCT 6,87	0.14		0.13	<T	0.010		0.035	<T	0.005		0.225		0.0692
OCT 8,87	OCT 7,87	<T 0.04		0.15	<T	0.005	<T	0.025	<W	0.005		0.075	D	0.0389
OCT 9,87	OCT 8,87	<T 0.06	<W	******	<T	0.005		0.030		0.030	<W	0.005		0.0204
OCT 10,87	OCT 9,87	******		******		******		******		******		******		******
OCT 18,87	OCT 17,87	0.42		0.35		0.060		0.080		0.055		0.535		0.2291
OCT 21,87	OCT 20,87	0.22		0.26		0.040		0.085		0.025		0.735		0.1660
OCT 23,87	OCT 22,87	<T 0.08		0.10	<T	0.010	<T	0.020	<T	0.005		0.275		0.0813
OCT 24,87	OCT 23,87	0.34		0.17		0.060		0.060		0.025		0.465		0.0955
OCT 25,87	OCT 24,87	0.46		0.27		0.050		0.065		0.045		0.505		0.1479
OCT 28,87	OCT 27,87	<T 0.08		0.08	<T	0.010	<T	0.005	<T	0.015		0.070		0.0603
OCT 31,87	OCT 30,87	1.10		0.58		0.175		0.040		0.035		0.545		0.1622
NOV 3,87	NOV 2,87	0.22		0.45		0.035		0.030		0.045		0.240		0.1778
NOV 4,87	NOV 3,87	0.20		0.22		0.030		0.040		0.060		0.495		0.1000
NOV 6,87	NOV 5,87	<T 0.06		0.05	<W	0.005		0.030	<W	0.005		0.135		0.0200
NOV 7,87	NOV 6,87	<T 0.10	<T	0.03	<T	0.010	<T	0.015	<T	0.020	<W	0.005	UG	0.0032
NOV 9,87	NOV 8,87	0.12		0.25	<T	0.005		0.140	<T	0.015		0.335		0.0603
NOV 18,87	NOV 17,87	0.14		0.35		0.040		0.040		0.185		0.055		0.0209
NOV 20,87	NOV 19,87	0.94		0.49		0.160		0.035		0.070		0.415		0.1862
NOV 26,87	NOV 25,87	******		******		******		******		******		******		******
NOV 30,87	NOV 29,87	******		******		******		******		******		******		******
DEC 2,87	DEC 1,87	******		******		******		******		******		******		******
DEC 4,87	DEC 3,87	!IS ******		0.46	!IS	******	!IS	******	!IS	******		0.180		0.0776
DEC 5,87	DEC 4,87	******		******		******		******		******		******		******
DEC 9,87	DEC 8,87	!IS ******		0.32	!IS	******	!IS	******	!IS	******	<T	0.020		0.0389
DEC 11,87	DEC 10,87	******		******		******		******		******		******		******
DEC 17,87	DEC 15,87	<T 0.06		0.06	<T	0.005	<T	0.010	<T	0.015		0.100		0.0407

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM 810 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 3,87	JAN 2,87	800	800	1400	2100	2	5.8	2	91654	2	1	****	IKE	
JAN 10,87	JAN 9,87	800	800	2100	700	2	4.8	2	91656	2	1	94		
JAN 13,87	JAN 12,87	800	800	900	1500	2	2.5	2	91658	2	1	41		N
JAN 17,87	JAN 16,87	800	800	1000	1600	2	2.2	2	91660	2	1	122		N
JAN 19,87	JAN 18,87	800	800	1000	1630	2	9.6	2	91662	2	1	34		N
JAN 21,87	JAN 20,87	800	800	****	****	2	1.6	2	91664	2	1	40		N
JAN 23,87	JAN 22,87	800	800	1500	2100	2	10.1	2	91666	2	1	41		N
JAN 31,87	JAN 23,87	800	800	800	1000	2	11.8	2	91669	2	1	33		NZ
FEB 3,87	FEB 2,87	800	800	400	800	2	1.6	2	91671	2	1	99		C
FEB 5,87	FEB 3,87	800	800	1800	2030	2	2.5	2	91673	2	1	81		Y2
FEB 9,87	FEB 8,87	800	800	1400	2200	2	21.4	2	54119	2	1	56		
FEB 11,87	FEB 10,87	800	800	800	1030	2	0.2	2	91676	2	1	187		N
MAR 1,87	FEB 28,87	800	800	1200	800	1	18.1	2	57071	2	1	89		
MAR 2,87	MAR 1,87	800	800	800	600	1	19.8	2	57073	2	1	91		
MAR 26,87	MAR 25,87	800	800	1400	100	1	5.5	2	57075	2	1	148		NT
MAR 31,87	MAR 30,87	800	800	1200	800	1	29.2	2	57077	2	1	100		T
APR 1,87	MAR 31,87	800	800	800	1500	3	14.2	2	57079	2	1	57		
APR 3,87	APR 1,87	800	800	****	****	2	7.2	2	57081	2	1	53		Y2
APR 4,87	APR 3,87	800	800	2400	800	1	9.2	2	57083	2	1	73		
APR 5,87	APR 4,87	800	800	800	600	1	16.6	2	57085	2	1	127		N
APR 11,87	APR 5,87	800	800	****	****	1	2.2	2	94360	2	1	262		NZ
APR 15,87	APR 14,87	800	800	200	500	1	****	2	94358	2	1	****	P	
APR 24,87	APR 23,87	800	800	1800	100	1	12.6	2	94356	2	1	108		
APR 28,87	APR 27,87	800	800	1200	800	1	4.3	2	91686	2	1	92		
APR 29,87	APR 28,87	800	800	800	900	1	0.5	2	48487	2	1	****	FE	
APR 30,87	APR 29,87	800	800	1100	1500	1	5.1	1	91689	2	1	103		JH
MAY 11,87	MAY 10,87	800	800	530	800	1	1.0	1	91690	2	1	****	E	
MAY 12,87	MAY 11,87	800	800	800	500	1	4.2	1	91693	2	1	101		
MAY 15,87	MAY 14,87	800	800	1800	200	1	14.6	1	91694	2	1	96		
MAY 17,87	MAY 16,87	800	800	2300	400	1	2.0	1	91696	2	1	77		
MAY 27,87	MAY 26,87	800	800	1800	2300	1	4.9	1	91702	2	1	97		TC
MAY 28,87	MAY 27,87	800	800	1000	600	1	3.8	1	91704	2	1	98		
MAY 29,87	MAY 28,87	800	800	1650	1800	1	14.7	1	91706	2	1	****	E	N
JUN 1,87	MAY 31,87	800	800	1700	1830	1	6.6	1	91708	2	1	101		
JUN 2,87	JUN 1,87	800	800	245	430	1	14.1	1	91710	2	1	98		T
JUN 4,87	JUN 3,87	800	800	930	1600	1	12.7	1	91712	2	1	93		
JUN 8,87	JUN 7,87	800	800	500	1200	1	6.2	1	91714	2	1	102		
JUN 9,87	JUN 8,87	800	800	830	1030	1	7.4	1	91716	2	1	90		J
JUN 10,87	JUN 9,87	800	800	1000	1800	1	4.2	1	91718	2	1	94		
JUN 12,87	JUN 11,87	800	800	1900	2400	1	5.7	1	91720	2	1	92		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM 810 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JAN 3,87	JAN 2,87	******		******		******		******		******		******		******		******
JAN 10,87	JAN 9,87	290.0		49.7		3.94		4.10		******		0.1140		2.65		1.26
JAN 13,87	JAN 12,87	66.0		51.1		******		4.09		******		0.1200		4.20		0.89
JAN 17,87	JAN 16,87	173.0	>	100.0		3.73		3.77		******		0.2290		4.75		2.75
JAN 19,87	JAN 18,87	210.0		22.6		4.37		4.47		******		0.0606		1.25		0.55
JAN 21,87	JAN 20,87	42.0		68.4		******		3.92		******		0.1660		2.85		1.68
JAN 23,87	JAN 22,87	268.0		14.0		4.55		4.60		******		0.0453	LG	0.30		0.41
JAN 31,87	JAN 23,87	254.0		50.5		4.02		4.01		******		0.1310		3.55		1.08
FEB 3,87	FEB 2,87	102.0		5.6		******		4.08		******		0.1160		3.40		1.99
FEB 5,87	FEB 3,87	131.0		15.2		4.69		4.76		******		0.0391		1.25		0.32
FEB 9,87	FEB 8,87	771.0		37.1		4.24		4.28		******		0.0815		2.80		1.12
FEB 11,87	FEB 10,87	24.0		23.9		******		4.39		******		0.0661		0.95		0.77
MAR 1,87	FEB 28,87	1042.0		14.5		******		4.53		******		0.0409		1.20		0.28
MAR 2,87	MAR 1,87	1163.0		13.5		******		4.52		******		0.0409		1.05		0.21
MAR 26,87	MAR 25,87	522.0		29.5		******		4.19		******		0.0435		2.20		0.66
MAR 31,87	MAR 30,87	1889.0		25.5		******		4.24		******		0.0513		2.30		0.37
APR 1,87	MAR 31,87	521.0		13.0		******		4.71		******		0.0732		1.70		0.11
APR 3,87	APR 1,87	246.0		29.5		******		4.24		******		0.0721		2.60		0.65
APR 4,87	APR 3,87	420.0		9.5		******		4.72		******		0.0291		0.65		0.14
APR 5,87	APR 4,87	1354.0		9.5		******		4.71		******		0.0295		0.65		0.14
APR 11,87	APR 5,87	370.0		10.1		4.79		4.87		******		0.0299		1.00		0.16
APR 15,87	APR 14,87	81.0		51.5		4.18		4.12		******		0.1040		6.45		1.53
APR 24,87	APR 23,87	876.0		54.8		3.99		3.88		******		0.1370		5.65		0.87
APR 28,87	APR 27,87	254.0		58.2		4.06		4.12		******		0.1070		4.60		2.41
APR 29,87	APR 28,87	******		******		******		******		******		******		******		******
APR 30,87	APR 29,87	338.0		19.0	UG	5.56	UG	6.68		******		0.0211		3.15		0.52
MAY 11,87	MAY 10,87	******		******		******		******		******		******		******		******
MAY 12,87	MAY 11,87	273.0	!SM	******		4.51	!SM	******		******	!SM	******	!SM	******	!SM	******
MAY 15,87	MAY 14,87	901.0		43.8		******		4.06		******		0.1170		5.05		0.59
MAY 17,87	MAY 16,87	99.0		47.0		4.39		4.69		******		0.0540		8.45		1.80
MAY 27,87	MAY 26,87	306.0	>	100.0		3.51		3.51		******		0.3010		11.95		1.15
MAY 28,87	MAY 27,87	240.0		58.8		3.85		3.87		******		0.1420		5.80		1.05
MAY 29,87	MAY 28,87	******		******		******		******		******		******		******		******
JUN 1,87	MAY 31,87	430.0		15.9		4.51		4.63		******		0.0386		2.10		0.30
JUN 2,87	JUN 1,87	892.0		57.2		3.92		3.83		******		0.1450		5.70		0.80
JUN 4,87	JUN 3,87	765.0		86.4		3.73		3.70		******		0.2290		8.40		1.10
JUN 8,87	JUN 7,87	407.0		23.5		4.46		4.62		******		0.0480		3.25		0.65
JUN 9,87	JUN 8,87	427.0		16.4		5.28	UG	5.82		******		0.0243		2.50		0.55
JUN 10,87	JUN 9,87	254.0		12.3		4.49		4.63		******		0.0397		1.35	<T	0.05
JUN 12,87	JUN 11,87	339.0		65.9		3.80		3.81		******		0.1730		6.60		0.90

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM 810 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 3,87	JAN 2,87	******	******	******	******	******	******	******
JAN 10,87	JAN 9,87	0.26	0.31	0.030	0.095	0.115	0.570	0.0794
JAN 13,87	JAN 12,87	<T 0.07	0.23	0.045	0.085	0.080	0.775	0.0813
JAN 17,87	JAN 16,87	0.26	0.50	0.035	0.145	0.115	1.650	0.1698
JAN 19,87	JAN 18,87	0.10	0.18	<T 0.015	0.030	0.040	0.300	0.0339
JAN 21,87	JAN 20,87	!IS ******	0.69	!IS ******	!IS ******	!IS ******	0.515	0.1202
JAN 23,87	JAN 22,87	0.10	0.12	<T 0.010	<T 0.015	0.035	<T 0.025	0.0251
JAN 31,87	JAN 23,87	0.16	0.27	<T 0.015	<T 0.025	0.120	0.565	0.0977
FEB 3,87	FEB 2,87	0.78	0.41	0.070	0.075	0.185	1.250	0.0832
FEB 5,87	FEB 3,87	0.16	0.61	<T 0.020	<T 0.020	0.375	0.260	0.0174
FEB 9,87	FEB 8,87	<T 0.08	0.38	<T 0.015	0.025	0.070	1.200	0.0525
FEB 11,87	FEB 10,87	!LA ******	0.26	!LA ******	!LA ******	!LA ******	0.220	0.0407
MAR 1,87	FEB 28,87	<T 0.06	0.10	<T 0.010	<W 0.005	D 0.050	0.170	0.0295
MAR 2,87	MAR 1,87	<T 0.04	<T 0.05	<T 0.005	<W 0.005	<T 0.010	0.090	0.0302
MAR 26,87	MAR 25,87	0.22	0.11	0.025	<W 0.005	0.030	0.275	0.0646
MAR 31,87	MAR 30,87	0.10	0.23	0.025	<T 0.010	0.130	0.240	0.0575
APR 1,87	MAR 31,87	0.18	D 0.21	D 0.025	D 0.125	D 0.205	D 0.115	0.0195
APR 3,87	APR 1,87	0.16	0.15	<T 0.015	<T 0.005	0.035	0.575	0.0575
APR 4,87	APR 3,87	<T 0.02	0.21	<T 0.015	<W 0.005	0.105	0.030	0.0191
APR 5,87	APR 4,87	<T 0.02	0.20	<T 0.015	<T 0.005	0.105	<T 0.020	0.0195
APR 11,87	APR 5,87	0.20	0.06	<T 0.010	<T 0.020	0.050	0.110	0.0135
APR 15,87	APR 14,87	1.50	0.28	0.170	0.085	0.075	1.260	0.0759
APR 24,87	APR 23,87	0.44	0.14	0.045	0.045	0.040	0.460	0.1318
APR 28,87	APR 27,87	1.52	0.43	0.265	0.270	0.330	1.260	0.0759
APR 29,87	APR 28,87	******	******	******	******	******	******	******
APR 30,87	APR 29,87	0.70	0.07	0.100	0.060	0.060	1.420	UG 0.0002
MAY 11,87	MAY 10,87	******	******	******	******	******	******	******
MAY 12,87	MAY 11,87	!SM ******	!SM ******	!SM ******	!SM ******	!SM ******	!SM ******	!SM ******
MAY 15,87	MAY 14,87	0.28	D 0.14	0.035	D 0.080	<T 0.025	0.465	0.0871
MAY 17,87	MAY 16,87	1.98	0.31	0.320	0.150	0.075	2.150	0.0204
MAY 27,87	MAY 26,87	0.44	0.25	0.035	0.100	0.055	0.760	0.3090
MAY 28,87	MAY 27,87	0.62	0.25	0.065	0.060	0.050	0.725	0.1349
MAY 29,87	MAY 28,87	******	******	******	******	******	******	******
JUN 1,87	MAY 31,87	0.16	<T 0.05	<T 0.020	0.065	<T 0.015	0.545	0.0234
JUN 2,87	JUN 1,87	0.26	0.20	0.045	0.045	0.030	0.660	0.1479
JUN 4,87	JUN 3,87	0.18	0.25	<T 0.015	0.040	0.030	0.850	0.1995
JUN 8,87	JUN 7,87	0.54	0.15	0.065	0.110	<T 0.015	0.805	0.0240
JUN 9,87	JUN 8,87	0.44	0.10	0.075	0.055	<T 0.015	0.950	UG 0.0015
JUN 10,87	JUN 9,87	<T 0.06	<W 0.01	<T 0.010	0.030	<T 0.020	0.090	0.0234
JUN 12,87	JUN 11,87	0.48	0.20	0.060	0.110	0.040	0.470	0.1549

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM 810

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 29,87	JUN 26,87	800	800	800	1400	1	****	1	91722	2	1	****		Z
JUN 30,87	JUN 29,87	800	800	1100	1400	1	0.6	1	91724	2	1	117		
JUL 3,87	JUL 2,87	800	800	2300	200	1	12.1	1	91726	2	1	104		
JUL 12,87	JUL 3,87	800	800	****	****	1	5.4	1	91728	2	1	69		Z
JUL 15,87	JUL 14,87	800	800	1200	1330	1	18.2	1	91730	2	1	95		
JUL 19,87	JUL 18,87	800	800	****	****	1	2.1	1	91735	2	1	83	C	
JUL 26,87	JUL 25,87	800	800	****	****	1	19.8	1	91737	2	1	91		
AUG 3,87	AUG 2,87	800	800	1000	2200	1	7.8	1	91733	2	1	98		
AUG 5,87	AUG 4,87	800	800	1430	1530	1	16.5	1	91739	2	1	101		M
AUG 8,87	AUG 7,87	800	800	1630	1700	1	0.6	1	91742	2	1	****	EK	
AUG 10,87	AUG 9,87	800	800	1100	1600	1	6.0	1	91744	2	1	98		
AUG 20,87	AUG 19,87	800	800	1400	1430	1	1.0	1	91745	2	1	68		
AUG 22,87	AUG 21,87	800	800	400	730	1	12.2	1	91747	2	1	95		M
AUG 29,87	AUG 28,87	800	800	2100	300	1	27.8	1	91749	2	1	97		
SEP 1,87	AUG 31,87	800	800	****	****	1	12.0	1	91751	2	1	97		
SEP 9,87	SEP 8,87	800	800	800	300	1	47.2	1	91753	2	1	100		
SEP 13,87	SEP 12,87	800	800	****	****	1	12.2	1	91755	2	1	86		
SEP 14,87	SEP 13,87	800	800	****	****	1	1.3	1	91757	2	1	55		
SEP 20,87	SEP 18,87	800	800	810	2400	1	31.0	1	91759	2	1	92		MY2
SEP 28,87	SEP 27,87	800	800	2130	200	1	7.1	1	91761	2	1	92		
SEP 30,87	SEP 29,87	800	800	1830	200	1	11.0	1	91763	2	1	95		
OCT 1,87	SEP 30,87	800	800	1400	1700	1	5.0	1	91765	2	1	104		M
OCT 3,87	OCT 2,87	800	800	900	2000	1	****	1	91767	2	1	****		
OCT 7,87	OCT 6,87	800	800	1900	800	1	10.6	1	91770	2	1	99		
OCT 8,87	OCT 7,87	800	800	800	945	1	23.8	1	91771	2	1	92		
OCT 9,87	OCT 8,87	800	800	820	900	1	0.2	1	91773	2	1	****	E	N
OCT 18,87	OCT 17,87	800	800	1800	2400	1	4.9	1	91775	2	1	62		
OCT 21,87	OCT 20,87	800	800	1700	2400	1	5.0	1	91777	2	1	98		
OCT 25,87	OCT 22,87	800	800	1700	200	1	22.0	1	91780	2	1	97		Y3
OCT 28,87	OCT 27,87	800	800	1400	2100	1	10.0	1	91781	2	1	73		
NOV 4,87	NOV 2,87	800	800	430	1500	1	14.6	1	91783	2	1	84		Y2
NOV 5,87	NOV 4,87	800	800	2000	2100	1	4.4	2	91785	2	1	94		
NOV 8,87	NOV 5,87	800	800	****	****	3	23.8	1	91787	2	1	85		Y3
NOV 18,87	NOV 17,87	800	800	1100	2400	1	32.6	1	91789	2	1	92		
NOV 19,87	NOV 18,87	800	800	****	****	1	2.0	1	91791	2	1	70		
NOV 26,87	NOV 25,87	800	800	900	1500	3	****	1	91793	2	1	****		
NOV 30,87	NOV 29,87	800	800	100	2300	1	68.2	1	91795	2	1	98		
DEC 10,87	DEC 9,87	800	800	1700	2300	3	11.6	1	91797	2	1	76		
DEC 13,87	DEC 12,87	800	800	900	1400	1	6.8	1	91799	2	1	81		
DEC 16,87	DEC 15,87	800	800	1030	2300	3	27.0	2	91801	2	1	U 23	QF	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JUN 29,87	JUN 26,87	1016.0		81.8	3.78		3.74	******	0.2070		9.15		1.10	
JUN 30,87	JUN 29,87	45.0	>	100.0	******		3.80	******	0.2020		16.10		2.95	
JUL 3,87	JUL 2,87	810.0		49.0	3.95		3.99	******	0.1410		3.65		0.78	
JUL 12,87	JUL 3,87	239.0		100.0	3.65		3.69	******	0.2750		11.60		1.16	
JUL 15,87	JUL 14,87	1117.0	D	45.0	4.29		4.36	******	0.0692		2.45		0.31	
JUL 19,87	JUL 18,87	112.0		50.0	4.27		4.31	******	0.0853		10.00		0.99	
JUL 26,87	JUL 25,87	1165.0		22.0	4.42		4.52	******	0.3200		3.95		0.42	
AUG 3,87	AUG 2,87	493.0		100.0	3.63		3.67	******	0.2890		10.90		1.20	
AUG 5,87	AUG 4,87	1074.0		34.0	4.11		4.14	******	0.1010		3.80		0.95	
AUG 8,87	AUG 7,87	******		******	******		******	******	******		******		******	
AUG 10,87	AUG 9,87	380.0		21.0	4.25		4.33	******	0.0721		2.55		0.17	
AUG 20,87	AUG 19,87	44.0		38.0	******	UG	6.72	******	0.0206	D	9.30		1.41	
AUG 22,87	AUG 21,87	746.0		15.0	4.35		4.50	******	0.0586		2.00		0.26	
AUG 29,87	AUG 28,87	1744.0		5.0	4.90		5.04	******	0.0298		0.65		0.11	
SEP 1,87	AUG 31,87	751.0		45.0	3.98		4.04	******	0.1280		5.35		0.55	
SEP 9,87	SEP 8,87	3042.0		5.0	4.82		4.94	******	0.0299		0.75	LG	0.07	
SEP 13,87	SEP 12,87	675.0		84.0	3.70		3.76	******	0.2370		9.35		0.97	
SEP 14,87	SEP 13,87	46.0	>	100.0	******		3.64	******	0.3070	>	10.00		1.94	
SEP 20,87	SEP 18,87	1830.0		13.0	4.50		4.71	******	0.0432		1.20		0.17	
SEP 28,87	SEP 27,87	419.0		14.0	4.89		4.93	******	0.0335		2.35		0.45	
SEP 30,87	SEP 29,87	674.0		46.0	4.00		4.08	******	0.1200		5.10		0.58	
OCT 1,87	SEP 30,87	335.0		8.0	4.84		5.04	******	0.0288		1.15		0.26	
OCT 3,87	OCT 2,87	747.0		24.0	4.41		4.51	******	0.0581		3.35		0.49	
OCT 7,87	OCT 6,87	673.0		38.0	4.00		4.13	******	0.1080		2.90		0.83	
OCT 8,87	OCT 7,87	1411.0		16.0	4.38		4.47	******	0.0565		1.80		0.24	
OCT 9,87	OCT 8,87	******	!RE	******	******	!RE	******	******	******	!RE	******	!RE	******	!RE
OCT 18,87	OCT 17,87	197.0		91.0	3.65		3.74	******	0.2390		7.80		2.20	
OCT 21,87	OCT 20,87	317.0		93.0	3.62		3.74	******	0.2410		7.10		2.22	
OCT 25,87	OCT 22,87	1371.0		55.0	******		4.02	******	0.1370		4.10		1.24	
OCT 28,87	OCT 27,87	469.0		34.5	******		4.20	******	0.0970		2.55		0.74	
NOV 4,87	NOV 2,87	795.0		58.0	3.96		4.00	******	0.1440		4.80		1.20	
NOV 5,87	NOV 4,87	266.0		15.0	4.54		4.71	******	0.0463		1.60		0.46	
NOV 8,87	NOV 5,87	1310.0		25.5	******		4.49	******	0.0648		2.70		0.64	
NOV 18,87	NOV 17,87	1927.0		16.0	4.40		4.59	******	0.0491		1.40		0.31	
NOV 19,87	NOV 18,87	91.0		33.0	******		4.44	******	0.0729		3.90		1.75	
NOV 26,87	NOV 25,87	474.0		8.0	******		4.81	******	0.0406		0.90		0.25	
NOV 30,87	NOV 29,87	4296.0		9.5	******		4.76	******	0.0415		0.90		0.25	
DEC 10,87	DEC 9,87	572.0		26.0	******		4.28	******	0.0808		2.50		0.35	
DEC 13,87	DEC 12,87	354.0		37.0	******		4.21	******	0.0973		3.00		1.00	
DEC 16,87	DEC 15,87	412.0		16.0	******		4.50	******	0.0545		1.10		0.38	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIN MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JUN 29,87	JUN 26,87	0.80		0.25		0.090		0.110		0.055		0.790		0.1820	
JUN 30,87	JUN 29,87	!IS ******		0.50		!IS ******		!IS ******		!IS ******		1.900		0.1585	
JUL 3,87	JUL 2,87	<T 0.04		0.63		<T 0.005		UG 0.615		<T 0.005		0.235		0.1023	
JUL 12,87	JUL 3,87	0.72		0.32		0.100		0.105		<T 0.010		0.950		0.2042	
JUL 15,87	JUL 14,87	<T 0.06	B	5.87		<T 0.010		U 6.510		<T 0.010		0.100		0.0437	
JUL 19,87	JUL 18,87	1.82		0.10		0.230		D 0.240		0.035		1.450		0.0490	
JUL 26,87	JUL 25,87	0.68		0.13		0.070		0.030		<T 0.005		0.505		0.0302	
AUG 3,87	AUG 2,87	0.18		0.58		0.030		0.215		0.025		1.100		0.2138	
AUG 5,87	AUG 4,87	0.18		0.18		0.025		0.040		<T 0.005		0.460		0.0724	
AUG 8,87	AUG 7,87	******		******		******		******		******		******		******	
AUG 10,87	AUG 9,87	<T 0.04		0.07		<T 0.005		<T 0.010		<T 0.005		0.085		0.0468	
AUG 20,87	AUG 19,87	UG 4.28		0.32		0.350		0.215		0.150		1.300	UG	0.0002	
AUG 22,87	AUG 21,87	<T 0.10		0.10		<T 0.005		<T 0.015		<T 0.005		0.160		0.0316	
AUG 29,87	AUG 28,87	<T 0.04	<T	0.02		<W 0.005		<T 0.010		<W 0.005		0.090		0.0091	
SEP 1,87	AUG 31,87	0.18		0.27		<T 0.015		<T 0.020		<W 0.005		0.510		0.0912	
SEP 9,87	SEP 8,87	<T 0.04	<T	0.03		<W 0.005		<T 0.010		<W 0.005		0.055		0.0115	
SEP 13,87	SEP 12,87	D 0.20		0.43		0.040		0.035		0.045		0.510		0.1738	
SEP 14,87	SEP 13,87	0.72		0.48		0.115		0.115		0.055		1.400		0.2291	
SEP 20,87	SEP 18,87	<W 0.02		0.06		<W 0.005		<T 0.015		<T 0.020		0.115		0.0195	
SEP 28,87	SEP 27,87	0.62		0.35		0.130		D 0.205		<T 0.015		0.395		0.0117	
SEP 30,87	SEP 29,87	0.34		0.19		0.070		0.025		0.060		0.625		0.0832	
OCT 1,87	SEP 30,87	0.12		0.08		0.040		0.045		<T 0.020		0.235		0.0091	
OCT 3,87	OCT 2,87	0.78		0.19		0.100		0.115		0.055		0.445		0.0309	
OCT 7,87	OCT 6,87	0.22		0.17		<T 0.015		0.065		<T 0.020		0.375		0.0741	
OCT 8,87	OCT 7,87	<T 0.04	<T	0.01		<W 0.005		<T 0.020		<W 0.005		0.145		0.0339	
OCT 9,87	OCT 8,87	!RE ******	!RE	******		!RE ******		!RE ******		!RE ******		!RE ******		!RE ******	
OCT 18,87	OCT 17,87	0.60		0.34		0.055		0.100		0.065		0.950		0.1820	
OCT 21,87	OCT 20,87	0.42		0.42		0.040		0.075		0.050		1.200		0.1820	
OCT 25,87	OCT 22,87	0.44		0.19		0.045		0.040		0.035		0.540		0.0955	
OCT 28,87	OCT 27,87	0.20		0.07		0.030		<T 0.015		0.025		0.275		0.0631	
NOV 4,87	NOV 2,87	0.38		0.28		0.045		0.030		0.050		0.665		0.1000	
NOV 5,87	NOV 4,87	0.18	<T	0.02		<T 0.015		<T 0.015		<T 0.010		0.410		0.0195	
NOV 8,87	NOV 5,87	0.42		0.24		0.050		0.185		0.180		0.400		0.0324	
NOV 18,87	NOV 17,87	0.12		0.34		0.030		<T 0.005		0.200		0.120		0.0257	
NOV 19,87	NOV 18,87	1.46		0.33		0.185		0.080		0.065		1.100		0.0363	
NOV 26,87	NOV 25,87	<T 0.04		0.09		<T 0.005		<T 0.010		0.035		0.180		0.0155	
NOV 30,87	NOV 29,87	<T 0.02		0.08		<T 0.005		<T 0.010		0.030		0.170		0.0174	
DEC 10,87	DEC 9,87	0.10		0.20		<T 0.020		<W 0.005		0.075		0.180		0.0525	
DEC 13,87	DEC 12,87	<T 0.06		0.16		<T 0.010		<T 0.020		0.030		0.850		0.0617	
DEC 16,87	DEC 15,87	0.12		0.07		<T 0.015		<T 0.010		0.025		0.080		0.0316	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 25,87	DEC 24,87	800	800	#####	#####	2	5.0	2	91803	2	1	53		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 25,87	DEC 24,87	171.0	39.5	******	4.18	******	0.1040	2.65	1.13

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 25,87	DEC 24,87	0.52	0.64	0.070	0.030	0.320	0.440	0.0661

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 3,87	JAN 2,87	830	830	1500	1700	2	7.2	2	60095	2	1	15		N
JAN 7,87	JAN 6,87	830	900	****	900	3	2.0	2	60096	2	1	98		
JAN 8,87	JAN 7,87	900	830	900	1130	2	0.4	2	60097	2	1	179		NH
JAN 10,87	JAN 9,87	830	900	****	900	2	4.2	2	60098	2	1	81		
JAN 11,87	JAN 10,87	900	900	900	1330	2	2.8	2	60099	2	1	54		
JAN 13,87	JAN 12,87	830	830	1300	1600	2	1.0	2	60101	2	1	45		N
JAN 15,87	JAN 14,87	830	730	****	730	3	0.4	2	60102	2	1	****	E	N
JAN 16,87	JAN 15,87	730	830	****	****	1	1.8	2	60103	2	1	125		NH
JAN 18,87	JAN 17,87	830	830	****	730	3	0.2	2	60105	2	1	****	E	N
JAN 19,87	JAN 18,87	830	830	730	1500	2	11.4	2	60106	2	1	54		
JAN 21,87	JAN 20,87	830	830	****	****	2	1.6	2	60107	2	1	63		
JAN 23,87	JAN 22,87	830	830	1330	****	2	9.4	2	60109	2	1	65		
JAN 24,87	JAN 23,87	830	830	****	****	2	0.5	2	60110	2	1	24		NHCN
JAN 29,87	JAN 28,87	830	830	****	****	3	0.2	2	60111	2	1	****	E	N
JAN 31,87	JAN 30,87	830	830	730	1200	2	11.4	2	60113	2	1	68		
FEB 1,87	JAN 31,87	830	830	830	930	3	0.2	2	60114	2	1	****	E	N
FEB 3,87	FEB 2,87	830	830	****	****	3	1.5	2	60117	2	1	108		
FEB 5,87	FEB 4,87	830	830	1430	1800	3	1.8	2	60118	2	1	78		
FEB 8,87	FEB 7,87	830	830	****	****	2	0.4	2	60120	2	1	58		
FEB 9,87	FEB 8,87	830	830	1000	1830	2	21.2	2	60121	2	1	44		N
FEB 10,87	FEB 9,87	830	830	****	830	2	0.2	2	60123	2	1	179		N
FEB 11,87	FEB 10,87	830	830	830	1200	2	0.4	2	60124	2	1	124		N
FEB 13,87	FEB 12,87	830	830	2030	2300	2	1.0	2	60125	2	1	49		N
MAR 1,87	FEB 28,87	830	830	1530	830	3	15.6	2	60127	2	1	58		
MAR 2,87	MAR 1,87	830	830	830	830	3	21.2	2	60129	2	1	49		N
MAR 3,87	MAR 2,87	830	830	830	1200	3	1.2	2	60131	2	1	80		
MAR 4,87	MAR 3,87	830	830	1900	****	2	0.2	9	80288	2	1	****	E	N
MAR 26,87	MAR 25,87	830	830	1700	1630	1	7.4	1	80289	2	1	110		
MAR 31,87	MAR 30,87	830	830	900	830	1	27.6	1	80292	2	1	76		
APR 1,87	MAR 31,87	830	830	830	2000	3	10.0	1	80295	2	1	126		N
APR 2,87	APR 1,87	830	700	****	700	2	0.8	1	80296	2	1	78		
APR 3,87	APR 2,87	700	830	700	1400	3	4.8	1	80229	2	1	91		
APR 4,87	APR 3,87	830	830	****	830	3	6.2	1	80298	2	1	106		
APR 5,87	APR 4,87	830	830	830	830	1	20.6	1	80299	2	1	71		N
APR 6,87	APR 5,87	830	830	1800	1130	1	5.2	1	80302	2	1	120		
APR 7,87	APR 6,87	830	830	830	1230	1	0.4	1	80303	2	1	288		N
APR 13,87	APR 12,87	830	830	****	****	1	0.2	1	80304	2	1	****	E	N
APR 23,87	APR 22,87	830	800	400	800	1	0.2	1	80307	2	1	****	E	N
APR 24,87	APR 23,87	800	800	800	1100	1	15.4	1	80308	2	1	108		
APR 28,87	APR 27,87	830	830	****	830	1	3.6	1	80311	2	1	109	BC	H

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILMER/DAILY/AEROCHEM 89A PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JAN 3,87	JAN 2,87	71.0		9.4		******		4.79		******		0.0348		0.65		0.24
JAN 7,87	JAN 6,87	126.0		76.5		3.78		3.91		******		0.1650		4.30		2.35
JAN 8,87	JAN 7,87	46.0		37.6		******		4.92		******		0.0344		3.45		1.93
JAN 10,87	JAN 9,87	220.0		26.0		******		4.27		******		0.0781		1.70		0.56
JAN 11,87	JAN 10,87	97.0		50.7		******		4.06		******		0.1190		3.80		0.91
JAN 13,87	JAN 12,87	29.0	D	22.0		******		4.66		******	D	0.0483	D	3.10		0.55
JAN 15,87	JAN 14,87	******		******		******		******		******		******		******		******
JAN 16,87	JAN 15,87	145.0	>	100.0		******		3.87		******		0.1860		5.65		2.90
JAN 18,87	JAN 17,87	******		******		******		******		******		******		******		******
JAN 19,87	JAN 18,87	401.0		15.6		******		4.79		******		0.0358		0.85		0.50
JAN 21,87	JAN 20,87	65.0		59.8		******		3.94		******		0.1340		2.50		1.60
JAN 23,87	JAN 22,87	392.0		11.0		******		4.63		******		0.0349	LG	0.25		0.35
JAN 24,87	JAN 23,87	8.0		5.4		******	UQ	6.30		******	LQ	0.0155	<T	0.10		0.28
JAN 29,87	JAN 28,87	******		******		******		******		******		******		******		******
JAN 31,87	JAN 30,87	499.0		45.6		4.06		4.06		******		0.1170		2.90		1.00
FEB 1,87	JAN 31,87	******		******		******		******		******		******		******		******
FEB 3,87	FEB 2,87	104.0		41.0		******		4.23		******		0.0908		2.50		1.45
FEB 5,87	FEB 4,87	90.0		8.5		******		4.99		******		0.0285		0.70		0.17
FEB 8,87	FEB 7,87	15.0		21.0		******		4.75		******		0.0441		2.00		0.72
FEB 9,87	FEB 8,87	610.0		26.4		4.42		4.43		******		0.0607		1.85		0.81
FEB 10,87	FEB 9,87	23.0		13.8		******		4.81		******		0.0354	LG	0.30		0.68
FEB 11,87	FEB 10,87	32.0	D	21.4		******		4.44		******		0.0592	LG	0.30		0.81
FEB 13,87	FEB 12,87	32.0		19.0		******		4.63		******		0.0442		1.15		0.64
MAR 1,87	FEB 28,87	583.0		11.8		4.46		4.73		******		0.0376		0.80		0.23
MAR 2,87	MAR 1,87	669.0		14.5		4.33		4.64		******		0.0437		1.00		0.22
MAR 3,87	MAR 2,87	62.0		11.3		******		5.12		******		0.0258		1.05		0.44
MAR 4,87	MAR 3,87	******		******		******		******		******		******		******		******
MAR 26,87	MAR 25,87	523.0	D	19.0		******		4.50		******		0.0680		2.10		0.74
MAR 31,87	MAR 30,87	1354.0		22.0		******		4.26		******		0.0747		2.35		0.38
APR 1,87	MAR 31,87	813.0		12.0		******		4.49		******		0.0472		1.25		0.12
APR 2,87	APR 1,87	40.0		22.0		******		4.26		******		0.0701		1.70		0.59
APR 3,87	APR 2,87	282.0		22.0		******		4.28		******		0.0698		2.00		0.57
APR 4,87	APR 3,87	422.0		15.0		******		4.46		******		0.0527		1.25		0.28
APR 5,87	APR 4,87	939.0		6.0		******		5.00		******		0.0257		0.40	LG	0.10
APR 6,87	APR 5,87	400.0		8.0		******		4.83		******		0.0324		0.80		0.16
APR 7,87	APR 6,87	74.0		6.0		******	UQ	5.42		******		0.0210		0.65		0.14
APR 13,87	APR 12,87	******		******		******		******		******		******		******		******
APR 23,87	APR 22,87	******		******		******		******		******		******		******		******
APR 24,87	APR 23,87	1074.0		43.0		******		4.01		******		0.1350		4.60		0.69
APR 28,87	APR 27,87	253.0		50.0		******		4.54		******		0.0721		5.45	UQ	3.30

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
JAN 3,87	JAN 2,87		0.12		0.06		0.030	<T	0.025		0.030		0.035		0.0162
JAN 7,87	JAN 6,87		1.22		0.43		0.080		0.085		0.135		0.850		0.1230
JAN 8,87	JAN 7,87	UG	3.04		0.81		0.085	UG	0.439	UG	0.611		0.700		0.0120
JAN 10,87	JAN 9,87		0.14		0.08	<T	0.010		0.030	<T	0.020		0.295		0.0537
JAN 11,87	JAN 10,87		0.14		0.19	<T	0.015		0.045		0.035		0.710		0.0871
JAN 13,87	JAN 12,87	D	0.84		0.18		0.060		0.115		0.100	D	0.490		0.0219
JAN 15,87	JAN 14,87		******		******		******		******		******		******		******
JAN 16,87	JAN 15,87		1.84		0.71		0.060		0.275		0.310		2.200		0.1349
JAN 18,87	JAN 17,87		******		******		******		******		******		******		******
JAN 19,87	JAN 18,87		0.46		0.20		0.045		0.030		0.035		0.140		0.0162
JAN 21,87	JAN 20,87		0.50		0.60		0.040		0.055		0.150		0.200		0.1148
JAN 23,87	JAN 22,87		0.20		0.12	<T	0.010	<T	0.010		0.060	<T	0.005		0.0148
JAN 24,87	JAN 23,87		0.32		0.07	<T	0.015		0.030		0.040	<T	0.010	UG	0.0005
JAN 29,87	JAN 28,87		******		******		******		******		******		******		******
JAN 31,87	JAN 30,87		0.18		0.16	<T	0.010	<T	0.020		0.035		0.410		0.0871
FEB 1,87	JAN 31,87		******		******		******		******		******		******		******
FEB 3,87	FEB 2,87		0.36		0.25	D	0.045		0.055	D	0.075		0.980		0.0589
FEB 5,87	FEB 4,87		0.16		0.16	<T	0.015	<T	0.020		0.075		0.060		0.0102
FEB 8,87	FEB 7,87		0.64		0.49		0.070		0.095		0.250		0.340		0.0178
FEB 9,87	FEB 8,87	<T	0.08		0.25	<T	0.010	<T	0.015	<T	0.020		0.790		0.0372
FEB 10,87	FEB 9,87		0.58		0.20		0.040		0.070		0.120	<T	0.005		0.0155
FEB 11,87	FEB 10,87		0.34		0.17		0.025		0.050		0.080	<T	0.020		0.0363
FEB 13,87	FEB 12,87		0.76		0.22		0.030	<T	0.025		0.140	<W	0.005		0.0234
MAR 1,87	FEB 28,87		0.10	<T	0.03	<T	0.005	<T	0.010	<T	0.020		0.090		0.0186
MAR 2,87	MAR 1,87	<T	0.10	<T	0.01	<W	0.005	<T	0.015	<T	0.010		0.065		0.0229
MAR 3,87	MAR 2,87		0.68	<T	0.03	<T	0.020		0.045		0.040		0.095		0.0076
MAR 4,87	MAR 3,87		******		******		******		******		******		******		******
MAR 26,87	MAR 25,87		0.50		0.22		0.040		0.050		0.045		0.305		0.0316
MAR 31,87	MAR 30,87	<T	0.10		0.31	<T	0.020	<T	0.020		0.130		0.235		0.0550
APR 1,87	MAR 31,87	<T	0.02	<W	0.01	<T	0.005	<T	0.005	<T	0.010	<T	0.025		0.0324
APR 2,87	APR 1,87	!IS	******		0.24	!IS	******	!IS	******	!IS	******		0.270		0.0525
APR 3,87	APR 2,87		0.12		0.22	<T	0.015		0.025	<T	0.020		0.360		0.0525
APR 4,87	APR 3,87		0.14		0.29	<T	0.020	<T	0.020		0.115		0.035		0.0347
APR 5,87	APR 4,87	<T	0.02		0.24	<T	0.010	<T	0.015		0.090	<T	0.020		0.0100
APR 6,87	APR 5,87		0.12		0.16	<T	0.020	<T	0.010		0.050		0.080		0.0148
APR 7,87	APR 6,87		0.12		0.18	<T	0.020	<T	0.020		0.065		0.200	UG	0.0038
APR 13,87	APR 12,87		******		******		******		******		******		******		******
APR 23,87	APR 22,87		******		******		******		******		******		******		******
APR 24,87	APR 23,87		0.30		0.23		0.040		0.045		0.045		0.385		0.0977
APR 28,87	APR 27,87	UG	3.38		0.58	UG	0.470	UG	0.750		0.360		1.900		0.0288

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 29,87	APR 28,87	830	800	830	1230	1	1.2	1	80312	2	1	179		N
APR 30,87	APR 29,87	800	800	1100	1400	1	4.6	2	60132	2	1	122	A	N
MAY 10,87	MAY 9,87	800	800	****	****	1	0.4	1	60133	2	1	****	EK	
MAY 11,87	MAY 10,87	800	830	630	800	1	1.4	1	60134	2	1	142		N
MAY 12,87	MAY 11,87	830	830	****	****	1	3.2	1	60135	2	1	96		H
MAY 15,87	MAY 14,87	830	830	2400	500	1	12.0	1	60136	2	1	103		
MAY 17,87	MAY 16,87	830	830	****	****	1	3.4	1	60137	2	1	93		
MAY 22,87	MAY 21,87	830	800	200	800	1	4.6	1	60138	2	1	99		
MAY 23,87	MAY 22,87	800	830	800	1000	1	7.6	1	60139	2	1	102		
MAY 25,87	MAY 24,87	830	830	****	****	1	0.8	1	60140	2	1	66	Q	
MAY 27,87	MAY 26,87	830	900	1630	2100	1	4.8	1	60141	2	1	99	A	
MAY 28,87	MAY 27,87	900	830	200	630	1	6.8	1	60142	2	1	101	A	
MAY 29,87	MAY 28,87	830	900	1600	1800	1	21.6	1	60143	2	1	****	EFI	
MAY 31,87	MAY 30,87	830	830	1400	1500	1	0.4	1	60144	2	1	****	EK	
JUN 1,87	MAY 31,87	830	830	1500	1530	1	12.6	1	60145	2	1	117	C	
JUN 2,87	JUN 1,87	830	830	****	****	1	4.6	1	60146	2	1	100		T
JUN 3,87	JUN 2,87	830	830	****	****	4	15.4	1	60147	2	1	****	EK	
JUN 4,87	JUN 3,87	830	830	945	1200	1	18.0	1	60148	2	1	64		T
JUN 6,87	JUN 5,87	830	830	1800	1915	1	2.8	1	60150	2	1	91		C
JUN 7,87	JUN 6,87	830	830	400	730	1	1.2	1	60151	2	1	80		HM
JUN 8,87	JUN 7,87	830	830	900	945	1	16.4	1	60152	2	1	108		H
JUN 9,87	JUN 8,87	830	800	815	930	1	9.6	1	60153	2	1	98		H
JUN 10,87	JUN 9,87	800	800	1045	1400	1	11.2	1	60154	2	1	91		
JUN 12,87	JUN 11,87	800	800	1900	2200	1	6.2	1	60155	2	1	98	C	
JUN 13,87	JUN 12,87	800	800	****	****	1	5.6	1	60156	2	1	101		
JUN 20,87	JUN 19,87	800	800	1630	1800	1	13.2	1	60157	2	1	98		
JUN 22,87	JUN 21,87	800	800	630	730	1	0.2	1	60158	2	1	****	EK	
JUN 23,87	JUN 22,87	800	800	1500	1715	1	0.6	1	60159	2	1	23	E	N
JUN 27,87	JUN 26,87	800	800	900	1500	1	10.4	1	60160	2	1	97		
JUN 29,87	JUN 28,87	800	830	800	830	1	1.0	1	60161	2	1	84		JH
JUN 30,87	JUN 29,87	830	830	2000	2030	1	2.0	1	60162	2	1	95	A	
JUL 3,87	JUL 2,87	830	830	****	****	1	10.6	1	60163	2	1	99		
JUL 4,87	JUL 3,87	830	830	****	****	1	5.8	1	60164	2	1	104		
JUL 15,87	JUL 14,87	830	830	1130	1600	1	14.6	1	60166	2	1	100	A	N
JUL 19,87	JUL 18,87	830	830	2000	2130	1	6.4	1	60167	2	1	99		
JUL 20,87	JUL 19,87	830	830	245	315	1	2.0	1	60168	2	1	92	A	
JUL 25,87	JUL 24,87	830	830	1730	1900	1	3.4	1	60169	2	1	97		H
JUL 26,87	JUL 25,87	830	830	****	****	1	0.4	1	60170	2	1	****	EK	
JUL 28,87	JUL 27,87	830	830	1630	1645	1	0.4	1	60171	2	1	****	EK	
AUG 3,87	AUG 2,87	830	830	1400	1800	1	11.6	1	60172	2	1	105		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILNER/DAILY/AEROCHEM 89A PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
APR 29,87	APR 28,87	138.0		20.0		******		4.82		******		0.0407		3.30		0.75	
APR 30,87	APR 29,87	362.0		19.8	UG	6.42	UG	6.87		******	LG	0.0175		3.10		0.57	
MAY 10,87	MAY 9,87	******		******		******		******		******		******		******		******	
MAY 11,87	MAY 10,87	128.0		36.9	UG	6.76	UG	7.08		******		0.0214		5.85		1.24	
MAY 12,87	MAY 11,87	198.0		29.9		4.81		4.97		******		0.0414		6.00		0.86	
MAY 15,87	MAY 14,87	793.0		50.2		3.93		4.01		******		0.1350		5.70		0.66	
MAY 17,87	MAY 16,87	204.0		33.5		4.39		4.55		******		0.0590		5.15		0.96	
MAY 22,87	MAY 21,87	294.0	>	100.0		3.60		3.67		******		0.2670		10.15		1.39	
MAY 23,87	MAY 22,87	497.0		99.9		3.63		3.68		******		0.2630		9.95		1.13	
MAY 25,87	MAY 24,87	34.0	D	23.8		******	B	6.29		******	D	0.0217	D	4.95		0.65	
MAY 27,87	MAY 26,87	306.0		95.6	D	3.65		3.71		******		0.2490		10.00		1.03	
MAY 28,87	MAY 27,87	443.0		47.0		3.84		3.95		******		0.1150		4.45		0.70	
MAY 29,87	MAY 28,87	******		******		******		******		******		******		******		******	
MAY 31,87	MAY 30,87	******		******		******		******		******		******		******		******	
JUN 1,87	MAY 31,87	952.0		21.4		4.28		4.43		******		0.0543		2.55		0.35	
JUN 2,87	JUN 1,87	295.0		60.8		3.74		3.79		******		0.1550		5.40		0.90	
JUN 3,87	JUN 2,87	******		******		******		******		******		******		******		******	
JUN 4,87	JUN 3,87	741.0		95.0		3.55	D	3.59		******		0.2460		9.20		1.20	
JUN 6,87	JUN 5,87	165.0		97.1		5.19		5.52		******		0.0213		1.15		0.25	
JUN 7,87	JUN 6,87	62.0		12.8		4.61		4.85		******		0.0348		1.55		0.20	
JUN 8,87	JUN 7,87	1138.0		26.6		4.50		4.71		******		0.0443		4.05		0.70	
JUN 9,87	JUN 8,87	607.0	D	14.3		4.80		5.00		******		0.0306		1.85		0.40	
JUN 10,87	JUN 9,87	660.0		10.7		4.54		4.66		******		0.0398		1.10	<T	0.05	
JUN 12,87	JUN 11,87	390.0		60.8		3.76		3.81		******		0.1670		6.10		0.65	
JUN 13,87	JUN 12,87	365.0		14.8		4.61		4.79		******		0.0351		1.65		0.30	
JUN 20,87	JUN 19,87	831.0		54.6		3.88		4.01		******		0.1260		6.55		1.05	
JUN 22,87	JUN 21,87	******		******		******		******		******		******		******		******	
JUN 23,87	JUN 22,87	9.0		******		******		******		******		******		******		******	
JUN 27,87	JUN 26,87	650.0		78.6		3.63		3.73		******		0.2070		7.65		0.85	
JUN 29,87	JUN 28,87	54.0		26.1		4.48		5.18		******		0.0313		4.30		0.90	
JUN 30,87	JUN 29,87	123.0		80.2		3.71		3.82		******		0.1620		10.20		1.35	
JUL 3,87	JUL 2,87	674.0		43.9		3.82		3.96		******		0.1260		3.55		0.75	
JUL 4,87	JUL 3,87	387.0		67.0		3.65		3.85		******		0.1800		8.50		0.70	
JUL 15,87	JUL 14,87	942.0		19.0		4.15		4.38		******		0.0633		2.15		0.29	
JUL 19,87	JUL 18,87	408.0		47.0		4.05		4.25		******		0.0892		8.05		0.77	
JUL 20,87	JUL 19,87	119.0	>	100.0		3.53		3.66		******		0.2820		11.10		1.16	
JUL 25,87	JUL 24,87	212.0		44.0		4.08		4.25		******		0.0914		8.40		0.78	
JUL 26,87	JUL 25,87	******		******		******		******		******		******		******		******	
JUL 28,87	JUL 27,87	******		******		******		******		******		******		******		******	
AUG 3,87	AUG 2,87	785.0		78.0		3.65		3.76		******		0.2120		9.30		0.86	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILNER/DAILY/AEROCHEM 89A PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
APR 29,87	APR 28,87	1.30		0.33		0.090		0.120		0.190		0.500		0.0151	
APR 30,87	APR 29,87	0.74		0.11		0.115		0.065		0.045		1.350	UG	0.0001	
MAY 10,87	MAY 9,87	******		******		******		******		******		******		******	
MAY 11,87	MAY 10,87	2.06		0.57		0.365	UG	0.380	UG	0.335		1.950	UG	0.0001	
MAY 12,87	MAY 11,87	1.38		0.19		0.215		0.160		0.185		1.500		0.0107	
MAY 15,87	MAY 14,87	0.30		0.10		0.045		0.035	<T	0.020		0.460		0.0977	
MAY 17,87	MAY 16,87	0.92		0.13		0.145		0.060		0.035		1.150		0.0282	
MAY 22,87	MAY 21,87	0.26		0.29		0.035		0.045		0.070		0.710		0.2138	
MAY 23,87	MAY 22,87	0.14		0.27	<T	0.020		0.055		0.060		0.725		0.2089	
MAY 25,87	MAY 24,87	!IS ******		0.25	!IS	******	!IS	******	!IS	******		1.650	B	0.0005	
MAY 27,87	MAY 26,87	0.34		0.32		0.035		0.085		0.130		0.695		0.1950	
MAY 28,87	MAY 27,87	0.24		0.15		0.035	<T	0.010		0.040		0.545		0.1122	
MAY 29,87	MAY 28,87	******		******		******		******		******		******		******	
MAY 31,87	MAY 30,87	******		******		******		******		******		******		******	
JUN 1,87	MAY 31,87	0.16	<T	0.05	<T	0.020		0.035		0.025		0.530		0.0372	
JUN 2,87	JUN 1,87	0.20		0.20		0.035	<T	0.015		0.025		0.555		0.1622	
JUN 3,87	JUN 2,87	******		******		******		******		******		******		******	
JUN 4,87	JUN 3,87	0.14		0.30	<T	0.015	<T	0.015		0.040		0.900	D	0.2570	
JUN 6,87	JUN 5,87	0.20	<T	0.05	<T	0.020		0.075	<T	0.025		0.360		0.0030	
JUN 7,87	JUN 6,87	0.43	<T	0.05		0.030		0.035	<T	0.025		0.330		0.0141	
JUN 8,87	JUN 7,87	0.70		0.20		0.100		0.105	D	0.090		1.150		0.0195	
JUN 9,87	JUN 8,87	0.24	<T	0.05		0.040		0.035	<T	0.025		0.660		0.0083	
JUN 10,87	JUN 9,87	<T 0.04	<T	0.05	<W	0.005	<T	0.005	<T	0.015	LG	0.050		0.0219	
JUN 12,87	JUN 11,87	0.26		0.15		0.040		0.075		0.035		0.425		0.1549	
JUN 13,87	JUN 12,87	0.12	<T	0.05	<T	0.020	<T	0.020		0.040		0.460		0.0162	
JUN 20,87	JUN 19,87	1.14		0.15		0.105	<T	0.025		0.035		0.900		0.0977	
JUN 22,87	JUN 21,87	******		******		******		******		******		******		******	
JUN 23,87	JUN 22,87	******		******		******		******		******		******		******	
JUN 27,87	JUN 26,87	0.32		0.20		0.030	<T	0.015		0.030		0.410		0.1862	
JUN 29,87	JUN 28,87	0.84		0.45		0.170	UG	0.380	UG	0.205		1.250		0.0066	
JUN 30,87	JUN 29,87	1.38		0.45		0.260		0.150		0.160		1.250		0.1514	
JUL 3,87	JUL 2,87	0.14		0.10	<T	0.015	<T	0.010	<T	0.020		0.225		0.1096	
JUL 4,87	JUL 3,87	0.26		0.18		0.035		0.030	<W	0.005		0.695		0.1413	
JUL 15,87	JUL 14,87	<T 0.10		0.14	<T	0.005	<T	0.015	<T	0.015		0.080		0.0417	
JUL 19,87	JUL 18,87	0.74	!CR	******		0.095		0.035		0.030		0.950		0.0562	
JUL 20,87	JUL 19,87	0.68		0.42		0.085		0.060		0.125		0.615		0.2188	
JUL 25,87	JUL 24,87	1.48		0.23		0.160		0.080		0.035		0.695		0.0562	
JUL 26,87	JUL 25,87	******		******		******		******		******		******		******	
JUL 28,87	JUL 27,87	******		******		******		******		******		******		******	
AUG 3,87	AUG 2,87	0.14		0.28	<T	0.020		0.095		0.040		0.830		0.1738	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 5,87	AUG 4,87	830	830	1430	1515	1	4.4	1	60173	2	1	99		
AUG 8,87	AUG 7,87	830	830	1830	1900	1	0.6	1	60174	2	1	****	EK	
AUG 10,87	AUG 9,87	830	830	1030	1800	1	6.0	1	60175	2	1	102		
AUG 18,87	AUG 17,87	830	830	****	****	1	0.2	1	60176	2	1	****	EK	
AUG 19,87	AUG 18,87	830	830	1545	1615	1	1.0	1	60177	2	1	79		H
AUG 22,87	AUG 21,87	830	830	400	745	1	7.6	1	60178	2	1	103		
AUG 26,87	AUG 25,87	830	830	1340	1415	1	7.2	1	60179	2	1	U 20	G	
AUG 29,87	AUG 28,87	830	830	2100	800	1	21.4	1	60180	2	1	72		
SEP 1,87	AUG 31,87	830	830	****	****	1	****	1	60182	2	1	****		
SEP 2,87	SEP 1,87	830	830	****	****	4	0.2	1	60183	2	1	****	E	N
SEP 9,87	SEP 8,87	730	700	815	1600	1	59.4	1	60184	2	1	91		
SEP 10,87	SEP 9,87	700	700	800	900	1	0.5	1	60186	2	1	****	Q	N
SEP 12,87	SEP 11,87	730	730	****	****	1	1.4	1	60187	2	1	95		
SEP 13,87	SEP 12,87	730	830	1400	1500	1	14.8	1	60188	2	1	101	A	
SEP 14,87	SEP 13,87	830	700	****	****	1	1.6	1	60189	2	1	86		
SEP 18,87	SEP 17,87	700	700	****	****	1	0.8	1	60190	2	1	60		
SEP 19,87	SEP 18,87	700	700	800	1300	1	8.2	1	60191	2	1	86		
SEP 20,87	SEP 19,87	700	830	700	1830	1	14.8	1	60192	2	1	49		NH
SEP 21,87	SEP 20,87	830	700	1900	2130	1	4.4	1	60194	2	1	96		H
SEP 24,87	SEP 23,87	700	700	****	****	1	5.2	1	60195	2	1	95	Q	
SEP 27,87	SEP 26,87	700	700	****	****	4	0.2	1	60196	2	1	****	E	N
SEP 28,87	SEP 27,87	700	700	****	****	1	1.6	1	60197	2	1	89		
SEP 30,87	SEP 29,87	700	700	1845	2130	1	11.8	1	60198	2	1	103		
OCT 1,87	SEP 30,87	700	700	1300	1530	1	3.2	1	60199	2	1	95		
OCT 2,87	OCT 1,87	700	700	****	****	4	0.2	1	60200	2	1	****	EK	
OCT 3,87	OCT 2,87	700	700	1000	1700	1	12.8	1	60201	2	1	97		
OCT 5,87	OCT 4,87	700	700	****	****	4	0.2	1	60202	2	1	****	EK	
OCT 7,87	OCT 6,87	700	700	530	700	1	9.2	1	60203	2	1	103		
OCT 8,87	OCT 7,87	700	700	700	930	1	18.2	1	60204	2	1	58		
OCT 9,87	OCT 8,87	700	700	700	830	1	1.8	1	60206	2	1	71		
OCT 10,87	OCT 9,87	700	700	****	****	1	0.4	1	60207	2	1	****	EK	
OCT 18,87	OCT 17,87	700	700	1830	2100	1	3.6	1	60208	2	1	87		
OCT 21,87	OCT 20,87	700	700	1630	2200	1	6.2	1	60209	2	1	94		
OCT 23,87	OCT 22,87	700	700	2300	700	1	11.2	1	60210	2	1	100		
OCT 24,87	OCT 23,87	700	700	700	930	1	1.8	1	60211	2	1	72		
OCT 25,87	OCT 24,87	700	700	1500	2000	1	7.0	1	60212	2	1	91		
OCT 28,87	OCT 27,87	700	700	1300	2100	1	7.2	1	60213	2	1	95		
OCT 30,87	OCT 29,87	700	700	****	****	1	0.2	1	60214	2	1	****	EK	
OCT 31,87	OCT 30,87	700	700	800	1030	1	2.4	1	60215	2	1	81		
NOV 3,87	NOV 2,87	700	700	****	****	1	0.8	1	60216	2	1	60		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
AUG 5,87	AUG 4,87	280.0		58.0		3.81		3.93		******	D	0.1490		6.10		1.20	
AUG 8,87	AUG 7,87	******		******		******		******		******		******		******		******	
AUG 10,87	AUG 9,87	394.0	D	22.0		4.13		4.32		******	D	0.0760		2.90		0.22	
AUG 18,87	AUG 17,87	******		******		******		******		******		******		******		******	
AUG 19,87	AUG 18,87	51.0		22.0		******	UG	6.87		******		0.0174		4.30		1.09	
AUG 22,87	AUG 21,87	503.0		13.0		4.31		4.52		******		0.0539		1.80		0.24	
AUG 26,87	AUG 25,87	93.0		6.0		******	UG	6.12		******		0.0200	!IR	******	!IR	******	
AUG 29,87	AUG 28,87	997.0		7.0		4.58		4.87		******		0.0345		0.75		0.18	
SEP 1,87	AUG 31,87	410.0		46.0		******		4.02		******		0.1320		5.20		0.53	
SEP 2,87	SEP 1,87	******		******		******		******		******		******		******		******	
SEP 9,87	SEP 8,87	3483.0		5.5		4.64		4.87		******		0.0316	!CR	******	!CR	******	
SEP 10,87	SEP 9,87	******		******		******		******		******		******		******		******	
SEP 12,87	SEP 11,87	86.0	>	100.0		******		3.64		******		0.3080		13.40		2.05	
SEP 13,87	SEP 12,87	961.0		79.0		3.67		3.81		******	D	0.2090		7.80		0.84	
SEP 14,87	SEP 13,87	89.0	>	100.0		******		3.75		******		0.2420		10.20		1.80	
SEP 18,87	SEP 17,87	31.0	>	100.0		******		3.65		******		0.3010		9.55		1.22	
SEP 19,87	SEP 18,87	457.0		15.0		4.40		4.57		******		0.0491		2.45		0.21	
SEP 20,87	SEP 19,87	468.0		9.0		4.62		4.75		******		0.0377		1.00		0.16	
SEP 21,87	SEP 20,87	272.0		14.0		4.42		4.60		******		0.0468		1.55		0.14	
SEP 24,87	SEP 23,87	319.0		9.0		4.94		5.14		******		0.0275		1.55		0.15	
SEP 27,87	SEP 26,87	******	!RE	******		******	!RE	******		******	!RE	******	!RE	******	!RE	******	
SEP 28,87	SEP 27,87	92.0		40.0		******		4.24		******		0.0905		3.65		1.03	
SEP 30,87	SEP 29,87	785.0		58.0		3.95		4.03		******		0.1340		6.65		0.73	
OCT 1,87	SEP 30,87	195.0		6.0		4.80		5.04		******		0.0291		0.90		0.19	
OCT 2,87	OCT 1,87	******		******		******		******		******		******		******		******	
OCT 3,87	OCT 2,87	801.0		20.0		4.29		4.58		******		0.0516		3.60		0.48	
OCT 5,87	OCT 4,87	******		******		******		******		******		******		******		******	
OCT 7,87	OCT 6,87	610.0		33.0		3.97		4.13		******		0.0994		2.75		0.81	
OCT 8,87	OCT 7,87	685.0		14.0		4.25		4.48		******		0.0530		1.65		0.23	
OCT 9,87	OCT 8,87	82.0		5.0		******		5.08		******		0.0263		0.80		0.15	
OCT 10,87	OCT 9,87	******		******		******		******		******		******		******		******	
OCT 18,87	OCT 17,87	202.0		89.0		3.62		3.73		******		0.2290		6.70		2.06	
OCT 21,87	OCT 20,87	375.0		73.0		3.66		3.79		******		0.1990		5.80		1.78	
OCT 23,87	OCT 22,87	723.0		34.0		3.93		4.12		******		0.0989		2.15		0.87	
OCT 24,87	OCT 23,87	84.0		36.0		******		4.29		******		0.0766		3.45		1.53	
OCT 25,87	OCT 24,87	411.0		78.0		3.64		3.75		******		0.2100		6.65		1.81	
OCT 28,87	OCT 27,87	443.0		26.0		4.08		4.27		******		0.0757		1.90		0.60	
OCT 30,87	OCT 29,87	******		******		******		******		******		******		******		******	
OCT 31,87	OCT 30,87	126.0		64.0		3.82		3.96		******		0.1440		4.05		2.80	
NOV 3,87	NOV 2,87	31.0	>	100.0		******	LG	3.57		******	!IS	******		9.90		2.00	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 9

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIN MG/L		POTASSIN MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
AUG 5,87	AUG 4,87	D	0.60		0.31	D	0.065		0.070	D	0.030		0.840		0.1175	
AUG 8,87	AUG 7,87		******		******		******		******		******		******		******	
AUG 10,87	AUG 9,87		0.12		0.11	<T	0.015	<T	0.015	<T	0.020		0.100		0.0479	
AUG 18,87	AUG 17,87		******		******		******		******		******		******		******	
AUG 19,87	AUG 18,87		2.22		0.30		0.135		0.095		0.085		0.775	UG	0.0001	
AUG 22,87	AUG 21,87	D	0.30		0.09	<T	0.015		0.040	D	0.045		0.105		0.0302	
AUG 26,87	AUG 25,87		0.22	!IR	******		0.035	<T	0.015	<T	0.015		0.310	UG	0.0008	
AUG 29,87	AUG 28,87	<T	0.08	<T	0.03	<T	0.010	<T	0.015	<T	0.010		0.120		0.0135	
SEP 1,87	AUG 31,87		0.20		0.19	<T	0.020		0.025	<W	0.005		0.510		0.0955	
SEP 2,87	SEP 1,87		******		******		******		******		******		******		******	
SEP 9,87	SEP 8,87	<W	0.02	!CR	******	<W	0.005	<T	0.005	<T	0.005	LQ	0.040		0.0135	
SEP 10,87	SEP 9,87		******		******		******		******		******		******		******	
SEP 12,87	SEP 11,87		0.30		0.42		0.085		0.120		0.070		2.100		0.2291	
SEP 13,87	SEP 12,87	<T	0.08		0.49		0.040		0.030		0.025		0.430		0.1549	
SEP 14,87	SEP 13,87		0.48		0.35		0.095		0.070		0.040		1.050		0.1778	
SEP 18,87	SEP 17,87		0.56		0.32		0.125		0.055		0.100		0.695		0.2239	
SEP 19,87	SEP 18,87	<T	0.04	<T	0.01		0.035	<T	0.015	<W	0.005		0.070		0.0269	
SEP 20,87	SEP 19,87	<W	0.02		0.09		0.030	<T	0.015	<T	0.010		0.055		0.0178	
SEP 21,87	SEP 20,87	<W	0.02	<T	0.01		0.030	<T	0.010	<T	0.010		0.065		0.0251	
SEP 24,87	SEP 23,87		0.18	<T	0.01		0.065		0.030	<T	0.010		0.225		0.0072	
SEP 27,87	SEP 26,87	!RE	******	!RE	******	!RE	******	!RE	******	!RE	******	!RE	******	!RE	******	
SEP 28,87	SEP 27,87		0.88		0.26		0.170		0.060	D	0.095		0.365		0.0575	
SEP 30,87	SEP 29,87		0.36		0.24		0.080		0.040		0.075		0.745		0.0933	
OCT 1,87	SEP 30,87	<T	0.06	<T	0.01		0.040		0.030	<T	0.020	D	0.140		0.0091	
OCT 2,87	OCT 1,87		******		******		******		******		******		******		******	
OCT 3,87	OCT 2,87		0.68		0.12		0.065		0.080		0.055		0.470		0.0263	
OCT 5,87	OCT 4,87		******		******		******		******		******		******		******	
OCT 7,87	OCT 6,87		0.20	D	0.46	<T	0.015		0.030	<T	0.015		0.260		0.0741	
OCT 8,87	OCT 7,87	<T	0.02	<T	0.04	<W	0.005	<T	0.015	<W	0.005		0.125		0.0331	
OCT 9,87	OCT 8,87		0.14		0.11	<T	0.015		0.045		0.055		0.065		0.0083	
OCT 10,87	OCT 9,87		******		******		******		******		******		******		******	
OCT 18,87	OCT 17,87		0.58		0.33		0.060		0.090		0.055		0.790		0.1862	
OCT 21,87	OCT 20,87		0.24		0.29		0.035		0.050		0.030		0.950		0.1622	
OCT 23,87	OCT 22,87	<T	0.08		0.11	<T	0.005	<T	0.015	<T	0.015		0.275		0.0759	
OCT 24,87	OCT 23,87		1.42		0.31		0.195		0.090		0.080		0.535		0.0513	
OCT 25,87	OCT 24,87		0.54		0.37		0.060		0.095		0.065		0.755		0.1778	
OCT 28,87	OCT 27,87		0.18		0.12	<T	0.020	<T	0.020	<T	0.025		0.200		0.0537	
OCT 30,87	OCT 29,87		******		******		******		******		******		******		******	
OCT 31,87	OCT 30,87		1.58		0.61		0.245		0.110		0.045		1.100		0.1096	
NOV 3,87	NOV 2,87		0.64		0.47		0.080		0.070		0.150		0.400	LQ	0.2692	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 4,87	NOV 3,87	700	700	700	1500	1	9.6	1	60218	2	1		99		
NOV 5,87	NOV 4,87	700	700	2000	2200	1	2.8	1	60219	2	1		94		
NOV 6,87	NOV 5,87	700	700	1500	1900	3	3.2	1	60220	2	1		65		
NOV 7,87	NOV 6,87	700	700	****	****	2	2.6	2	60221	2	1		81		HN
NOV 8,87	NOV 7,87	700	800	****	****	1	2.2	2	60222	2	1		121		N
NOV 9,87	NOV 8,87	800	700	800	1600	1	14.8	2	60223	2	1		51		
NOV 18,87	NOV 17,87	700	700	700	1600	1	32.4	2	60226	2	1		99		
NOV 21,87	NOV 20,87	700	800	****	****	2	0.2	2	60229	2	1		****	EK	
NOV 23,87	NOV 22,87	700	700	****	****	1	0.2	2	60230	2	1		****	EK	
NOV 24,87	NOV 23,87	700	700	2200	2220	1	0.2	2	60231	2	1		****	EK	
NOV 26,87	NOV 25,87	700	700	900	1630	4	30.2	2	60232	2	1	U	44	J	
NOV 28,87	NOV 27,87	700	800	****	****	1	0.2	2	60234	2	1		****	EK	
NOV 29,87	NOV 28,87	800	900	1700	900	1	12.2	2	60235	2	1		100		
NOV 30,87	NOV 29,87	900	700	900	2000	1	48.6	2	60236	2	1		72		N
DEC 1,87	NOV 30,87	700	700	****	****	1	0.2	2	60237	2	1	U	522	EK	
DEC 2,87	DEC 1,87	700	700	1500	2200	2	1.4	2	60238	2	1		****	EIK	
DEC 4,87	DEC 3,87	700	700	****	****	1	0.4	2	60239	2	1		****	EK	
DEC 5,87	DEC 4,87	700	800	****	****	1	0.2	2	60240	2	1		****	EK	
DEC 9,87	DEC 8,87	700	700	845	1000	1	0.8	2	60241	2	1		54		
DEC 10,87	DEC 9,87	700	700	****	****	1	7.0	2	60242	2	1		114		
DEC 12,87	DEC 11,87	700	800	****	****	3	0.6	2	60243	2	1		31		N
DEC 13,87	DEC 12,87	800	800	930	1200	3	2.6	2	60244	2	1		148		N
DEC 14,87	DEC 13,87	800	700	****	****	2	0.2	2	60245	2	1		****	EK	
DEC 16,87	DEC 15,87	700	700	1045	1600	3	29.6	2	60246	2	1		59		
DEC 17,87	DEC 16,87	700	700	700	900	2	1.0	2	60247	2	1		35		N
DEC 18,87	DEC 17,87	700	700	****	****	2	0.2	2	60248	2	1		****	EK	
DEC 19,87	DEC 18,87	700	700	****	****	2	0.4	2	60249	2	1		****	EK	
DEC 20,87	DEC 19,87	700	800	****	****	3	9.6	2	60250	2	1		80		
DEC 21,87	DEC 20,87	800	700	700	1500	1	7.8	2	60251	2	1		92		
DEC 28,87	DEC 27,87	700	700	****	****	2	0.2	2	60252	2	1		****	EK	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
NOV 4,87	NOV 3,87	615.0		43.0		3.91		4.02		******	0.1210		4.00		0.83	
NOV 5,87	NOV 4,87	170.0		16.0		4.38		4.59		******	0.0470		1.40		0.45	
NOV 6,87	NOV 5,87	134.0		7.0		4.71		5.05		******	0.0261		0.95	LG	0.06	
NOV 7,87	NOV 6,87	135.0	LG	3.0	UG	5.09	UG	5.48		******	0.0190	LG	0.35		0.17	
NOV 8,87	NOV 7,87	172.0		20.0		4.22		4.36		******	0.0632		1.50		0.44	
NOV 9,87	NOV 8,87	486.0		26.0		4.10		4.25		******	0.0774		1.85		0.62	
NOV 18,87	NOV 17,87	2074.0		13.0		******		4.64		******	0.0437		1.20		0.27	
NOV 21,87	NOV 20,87	******		******		******		******		******	******		******		******	
NOV 23,87	NOV 22,87	******		******		******		******		******	******		******		******	
NOV 24,87	NOV 23,87	******		******		******		******		******	******		******		******	
NOV 26,87	NOV 25,87	870.0		22.0		******		4.36		******	0.0730		1.55		0.54	
NOV 28,87	NOV 27,87	******		******		******		******		******	******		******		******	
NOV 29,87	NOV 28,87	788.0		7.0		******		4.78		******	0.0357		0.85	LG	0.08	
NOV 30,87	NOV 29,87	2257.0	LG	3.0		******		5.09		******	0.0247		0.40	LG	0.07	
DEC 1,87	NOV 30,87	67.0		54.5		******		4.04		******	0.1320		4.70		1.62	
DEC 2,87	DEC 1,87	******		******		******		******		******	******		******		******	
DEC 4,87	DEC 3,87	******		******		******		******		******	******		******		******	
DEC 5,87	DEC 4,87	******		******		******		******		******	******		******		******	
DEC 9,87	DEC 8,87	28.0	!IS	******		******		4.19		******	0.0988	!IS	******	!IS	******	
DEC 10,87	DEC 9,87	513.0		21.0		******		4.34		******	0.0707		2.15		0.19	
DEC 12,87	DEC 11,87	12.0	!IS	******		******	UG	6.54		******	0.0194	!IS	******	!IS	******	
DEC 13,87	DEC 12,87	248.0		30.0		******		4.28		******	0.0852		2.60		0.84	
DEC 14,87	DEC 13,87	******		******		******		******		******	******		******		******	
DEC 16,87	DEC 15,87	1138.0		12.5		******		4.56		******	0.0488		1.05		0.30	
DEC 17,87	DEC 16,87	23.0	!IS	******		******		4.75		******	0.0458	!IS	******	!IS	******	
DEC 18,87	DEC 17,87	******		******		******		******		******	******		******		******	
DEC 19,87	DEC 18,87	******		******		******		******		******	******		******		******	
DEC 20,87	DEC 19,87	495.0		23.0		******		4.37		******	0.0742		1.35		0.64	
DEC 21,87	DEC 20,87	463.0		27.0		******		4.21		******	0.0979		2.05		0.54	
DEC 28,87	DEC 27,87	******		******		******		******		******	******		******		******	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIN MG/L		POTASSIN MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
NOV 4,87	NOV 3,87		0.14		0.20	<T	0.020		0.070		0.040		0.595	0.0955
NOV 5,87	NOV 4,87		0.14		0.08	<T	0.010		0.070	<T	0.005		0.350	0.0257
NOV 6,87	NOV 5,87	<T	0.06		0.08	<T	0.005		0.080		0.035		0.115	0.0089
NOV 7,87	NOV 6,87		0.12	<T	0.04	<T	0.010	<T	0.005	<T	0.015		0.085	UG 0.0033
NOV 8,87	NOV 7,87		0.12		0.10	<T	0.010		0.070	<T	0.025		0.205	0.0437
NOV 9,87	NOV 8,87	<T	0.08		0.09	<T	0.005		0.045	<T	0.015		0.370	0.0562
NOV 18,87	NOV 17,87	<T	0.08		0.33		0.030	<T	0.015		0.200		0.110	0.0229
NOV 21,87	NOV 20,87		******		******		******		******		******		******	******
NOV 23,87	NOV 22,87		******		******		******		******		******		******	******
NOV 24,87	NOV 23,87		******		******		******		******		******		******	******
NOV 26,87	NOV 25,87	<T	0.02		0.06	<T	0.005	<T	0.015	<T	0.010		0.270	0.0437
NOV 28,87	NOV 27,87		******		******		******		******		******		******	******
NOV 29,87	NOV 28,87	<W	0.02		0.10	<W	0.005	<T	0.005		0.055		0.030	0.0166
NOV 30,87	NOV 29,87	<W	0.02	<W	0.01	<W	0.005	<W	0.005	<T	0.010	<T	0.020	0.0081
DEC 1,87	NOV 30,87		0.26		0.40		0.030		0.085		0.175		1.330	0.0912
DEC 2,87	DEC 1,87		******		******		******		******		******		******	******
DEC 4,87	DEC 3,87		******		******		******		******		******		******	******
DEC 5,87	DEC 4,87		******		******		******		******		******		******	******
DEC 9,87	DEC 8,87	!IS	******	!IS	******	!IS	******	!IS	******	!IS	******		0.280	0.0646
DEC 10,87	DEC 9,87	<T	0.06		0.12	<T	0.005	<T	0.010		0.045		0.090	0.0457
DEC 12,87	DEC 11,87	<T	0.03	!IS	******	<W	0.005	<T	0.010		0.205		0.080	UG 0.0003
DEC 13,87	DEC 12,87		0.12		0.15	<T	0.015	<T	0.020	<T	0.015		0.690	0.0525
DEC 14,87	DEC 13,87		******		******		******		******		******		******	******
DEC 16,87	DEC 15,87	<T	0.06	<T	0.03	<T	0.005	<T	0.005	<T	0.015		0.070	0.0275
DEC 17,87	DEC 16,87		0.26	!IS	******	<T	0.025		0.060		0.105		0.060	0.0178
DEC 18,87	DEC 17,87		******		******		******		******		******		******	******
DEC 19,87	DEC 18,87		******		******		******		******		******		******	******
DEC 20,87	DEC 19,87	<T	0.08		0.11	<T	0.005	<T	0.005		0.030		0.190	0.0427
DEC 21,87	DEC 20,87		0.12		0.07	<T	0.010	<T	0.005		0.035		0.070	0.0617
DEC 28,87	DEC 27,87		******		******		******		******		******		******	******

PART VI

SOUTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM 802 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,87	JAN 1,87	800	800	200	800	2	4.6	2	64636	2	1		71		
JAN 3,87	JAN 2,87	800	800	800	1600	2	2.8	2	64637	2	1		64		
JAN 8,87	JAN 7,87	800	800	800	1300	3	1.6	2	64638	2	1		94		T
JAN 10,87	JAN 9,87	800	900	2300	900	2	6.6	2	64639	2	1		47		N
JAN 11,87	JAN 10,87	900	800	800	1600	3	2.0	2	64640	2	1		107		
JAN 13,87	JAN 12,87	800	800	1600	1500	2	0.4	2	64641	2	1		81		H
JAN 15,87	JAN 14,87	800	800	2000	2400	1	4.8	2	64642	2	1		101		
JAN 17,87	JAN 16,87	800	800	1700	800	2	1.0	2	64643	2	1		****	FIE	
JAN 19,87	JAN 18,87	800	800	900	1100	2	1.0	2	64644	2	1		46		N
JAN 23,87	JAN 22,87	800	800	2200	100	2	2.1	2	64645	2	1		36		N
JAN 30,87	JAN 29,87	800	800	2400	800	3	2.8	2	64647	2	1		64		
JAN 31,87	JAN 30,87	800	800	****	****	3	4.2	2	64648	2	1		64		
FEB 9,87	FEB 8,87	800	800	800	2000	3	5.4	2	64650	2	1		35		N
FEB 12,87	FEB 11,87	800	800	400	800	2	1.4	2	64651	2	1		37		N
FEB 22,87	FEB 21,87	800	800	700	900	2	1.0	2	64652	2	1		93		
FEB 23,87	FEB 22,87	900	800	500	800	2	1.2	2	64653	2	1		97		
FEB 28,87	FEB 27,87	800	900	400	700	2	0.6	2	64654	2	1		49		N
MAR 1,87	FEB 28,87	900	900	2000	900	1	7.8	2	64655	2	1		112	C	
MAR 2,87	MAR 1,87	900	900	900	2100	3	7.0	2	64656	2	1		86		H
MAR 3,87	MAR 2,87	900	800	1900	2300	2	2.3	2	64649	2	1		94	C	JHM
MAR 4,87	MAR 3,87	800	800	1000	1400	2	1.0	2	64657	2	1		73		
MAR 13,87	MAR 12,87	800	800	500	700	2	1.0	2	64658	2	1		****	E	N
MAR 14,87	MAR 13,87	800	800	600	800	2	1.0	2	64659	2	1		88	B	
MAR 15,87	MAR 14,87	800	800	800	1000	2	0.4	2	64660	2	1		54		H
MAR 25,87	MAR 24,87	800	800	400	700	1	1.0	1	64661	2	1		78		H
MAR 26,87	MAR 25,87	800	800	2100	2400	1	1.0	1	64662	2	1		71		
MAR 27,87	MAR 26,87	800	800	1100	1200	1	1.4	1	64663	2	1		85		
MAR 30,87	MAR 29,87	800	800	2100	800	1	19.8	1	64664	2	1		116		
APR 1,87	MAR 31,87	800	800	1000	1200	2	1.4	2	64668	2	1		25	C	N
APR 2,87	APR 1,87	800	800	2000	100	1	14.0	2	64669	2	1	U	49	CGE	
APR 3,87	APR 2,87	800	800	1000	1300	2	2.8	2	64670	2	1		39		N
APR 5,87	APR 4,87	800	800	1100	400	3	8.0	2	64671	2	1	U	74	CDGE	
APR 6,87	APR 5,87	800	800	1400	2000	1	4.8	2	64672	2	1		77		H
APR 7,87	APR 6,87	800	800	1900	2000	1	0.8	2	64673	2	1		56		
APR 12,87	APR 11,87	800	800	300	900	1	9.6	1	64674	2	1		98	B	HM
APR 13,87	APR 12,87	900	800	300	600	1	5.2	1	64675	2	1		97	C	H
APR 15,87	APR 14,87	800	800	1400	1600	1	2.0	1	64676	2	1		84	C	
APR 23,87	APR 22,87	800	800	400	800	1	1.4	1	64677	2	1		93		C
APR 24,87	APR 23,87	800	800	800	1000	1	1.4	1	64678	2	1		86	CB	
APR 28,87	APR 27,87	800	800	1400	1600	1	10.8	1	64679	2	1		98	A	JHM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 2,87	JAN 1,87	212.0		26.4		4.31		4.32		******		0.0763		0.85		0.80	
JAN 3,87	JAN 2,87	116.0		14.8		4.72		4.71		******		0.0430		0.70		0.36	
JAN 8,87	JAN 7,87	97.0		62.5		******		3.83		******		0.1450		4.65		1.17	
JAN 10,87	JAN 9,87	200.0		42.0		4.03		4.02		******		0.1000		3.05		0.82	
JAN 11,87	JAN 10,87	138.0	D	42.5		4.06		4.00		******		0.1040		2.95		0.83	
JAN 13,87	JAN 12,87	21.0		11.0		******		5.70		******		0.0234		1.60		0.23	
JAN 15,87	JAN 14,87	312.0		44.1		4.03		3.98		******		0.1100		2.95		0.84	
JAN 17,87	JAN 16,87	******		******		******		******		******		******		******		******	
JAN 19,87	JAN 18,87	30.0		11.6		******		5.05		******		0.0281		1.25		0.32	
JAN 23,87	JAN 22,87	49.0		40.0		******		4.11		******		0.0875		1.15		1.31	
JAN 30,87	JAN 29,87	116.0		53.3		******		3.99		******		0.1200		3.95		1.07	
JAN 31,87	JAN 30,87	174.0		52.1		******		3.97		******		0.1240		4.05		0.80	
FEB 9,87	FEB 8,87	122.0		19.3	UG	6.20		6.41		******		0.0169		3.05		0.73	
FEB 12,87	FEB 11,87	34.0		40.8		******		4.37		******		0.0707		1.45		2.37	
FEB 22,87	FEB 21,87	60.0	>	100.0		******		3.94		******		0.1590	UG	12.20	UG	4.10	
FEB 23,87	FEB 22,87	75.0	D	43.9		******		4.14		******		0.1000	D	3.05		1.52	
FEB 28,87	FEB 27,87	19.0		26.8		******		4.59		******		0.0510		2.40		0.98	
MAR 1,87	FEB 28,87	560.0		27.4		4.04		4.35		******		0.0727		1.70		0.55	
MAR 2,87	MAR 1,87	390.0	D	12.3	D	5.03	D	5.31		******	D	0.0238		1.40		0.40	
MAR 3,87	MAR 2,87	140.0		6.2		4.85		5.82		******		0.0249		0.80	<M	0.01	
MAR 4,87	MAR 3,87	47.0		9.0		******	UG	6.71		******		0.0160		1.25		0.13	
MAR 13,87	MAR 12,87	******		******		******		******		******		******		******		******	
MAR 14,87	MAR 13,87	57.0		17.0		******		5.47		******		0.0217		0.60		1.20	
MAR 15,87	MAR 14,87	14.0		12.7		******		5.23		******		0.0245		1.25		0.62	
MAR 25,87	MAR 24,87	50.0		38.0		******		5.18		******		0.0327	UG	8.95		1.20	
MAR 26,87	MAR 25,87	46.0		54.8		******		4.13		******		0.1100		7.10		2.06	
MAR 27,87	MAR 26,87	77.0		38.0		******		4.22		******		0.0871		3.85		0.83	
MAR 30,87	MAR 29,87	1477.0		31.2		4.21		4.23		******		0.0827		2.85		0.48	
APR 1,87	MAR 31,87	23.0		8.9		******	B	6.76		******		0.0152		0.95	<M	0.01	
APR 2,87	APR 1,87	443.0		******		3.99		******		******		******		******		******	
APR 3,87	APR 2,87	70.0		28.5		******		4.28		******		0.0795	!IS	******	!IS	******	
APR 5,87	APR 4,87	380.0		******		4.63		******		******		******		******		******	
APR 6,87	APR 5,87	240.0		25.2		4.24	D	4.38		******		0.0653		3.00		0.25	
APR 7,87	APR 6,87	29.0		12.3		******		6.39		******	D	0.0373		1.55		0.18	
APR 12,87	APR 11,87	605.0		18.0		******	UG	6.85		******		0.0295		3.40		0.40	
APR 13,87	APR 12,87	325.0		9.0		******		5.09		******		0.0290		1.50		0.24	
APR 15,87	APR 14,87	108.0	>	100.0		******	B	7.61		******		0.0365	B	19.00	<M	0.01	
APR 23,87	APR 22,87	84.0	>	100.0		******		3.49		******	UG	0.4290	UG	20.00	UG	5.30	
APR 24,87	APR 23,87	78.0		51.0		******		4.05		******		0.1290		8.00		1.19	
APR 28,87	APR 27,87	683.0		13.0		5.09	UG	6.93		******		0.0178		2.60		0.57	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM 802 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JAN 2,87	JAN 1,87	0.20		0.33		0.030		0.035		0.045		0.115		0.0479	
JAN 3,87	JAN 2,87	0.12	D	0.51		0.025		0.070		0.285		0.100		0.0195	
JAN 8,87	JAN 7,87	0.16		0.24		0.030		0.080		0.090		0.770		0.1479	
JAN 10,87	JAN 9,87	0.20		0.25		0.035		0.040		0.065		0.565		0.0955	
JAN 11,87	JAN 10,87	0.18		0.21		0.030		0.045		0.055		0.485		0.1000	
JAN 13,87	JAN 12,87	0.36		0.27		0.060		0.125		0.190		0.410		0.0020	
JAN 15,87	JAN 14,87	0.18	D	0.51		0.030		0.175	D	0.255		0.395		0.1047	
JAN 17,87	JAN 16,87	******		******		******		******		******		******		******	
JAN 19,87	JAN 18,87	0.38		0.19		0.055		0.070		0.090		0.265		0.0089	
JAN 23,87	JAN 22,87	0.82		1.37		0.145		0.080		0.520		0.210		0.0776	
JAN 30,87	JAN 29,87	0.42		0.47		0.055		0.110		0.230		0.535		0.1023	
JAN 31,87	JAN 30,87	0.20		0.48		0.035		0.035		0.085		0.480		0.1072	
FEB 9,87	FEB 8,87	1.38		0.25		0.225		0.060		0.120		0.600		0.0004	
FEB 12,87	FEB 11,87	1.82		0.76		0.290		0.065		0.425		0.430		0.0427	
FEB 22,87	FEB 21,87	6.22	UG	2.05	UG	0.965		0.085	UG	0.900		1.250		0.1148	
FEB 23,87	FEB 22,87	0.56		0.56		0.090		0.145		0.270		0.930		0.0724	
FEB 28,87	FEB 27,87	1.34		0.38		0.195		0.045		0.235		0.200		0.0257	
MAR 1,87	FEB 28,87	0.22		0.21		0.035	D	0.080		0.075		0.185		0.0447	
MAR 2,87	MAR 1,87	0.66	D	0.14	D	0.120	<T	0.015	<T	0.020		0.240	D	0.0049	
MAR 3,87	MAR 2,87	0.08	<T	0.24		0.030	UG	1.170		0.170	<W	0.005		0.0015	
MAR 4,87	MAR 3,87	0.86		0.21		0.170		0.115		0.135		0.100	UG	0.0002	
MAR 13,87	MAR 12,87	******		******		******		******		******		******		******	
MAR 14,87	MAR 13,87	******	!IS	0.56	!IS	******	!IS	******	!IS	******		0.145		0.0034	
MAR 15,87	MAR 14,87	0.96		0.48		0.155		0.050		0.245		0.140		0.0059	
MAR 25,87	MAR 24,87	3.66	UG	0.71		0.545		0.195		0.355		0.720		0.0066	
MAR 26,87	MAR 25,87	1.84		0.45		0.345		0.140		0.145	D	1.400		0.0741	
MAR 27,87	MAR 26,87	0.30		0.81		0.060	D	0.290	D	0.295		0.950		0.0603	
MAR 30,87	MAR 29,87	0.14		0.13		0.025		0.045		0.045		0.400		0.0589	
APR 1,87	MAR 31,87	0.86	D	0.46	D	0.190	D	0.300		0.230	!IS	******	B	0.0002	
APR 2,87	APR 1,87	******		******		******		******		******		******		******	
APR 3,87	APR 2,87	******	!IS	******	!IS	******	!IS	******	!IS	******	!IS	******	!IS	0.0525	
APR 5,87	APR 4,87	******		******		******		******		******		******		******	
APR 6,87	APR 5,87	0.32		0.44		0.060		0.050	D	0.240		0.480	D	0.0417	
APR 7,87	APR 6,87	0.54		0.29		0.110		0.155		0.165	!IS	******		0.0004	
APR 12,87	APR 11,87	0.62		0.30		0.190	B	1.330		0.035	D	1.450	UG	0.0001	
APR 13,87	APR 12,87	0.28		0.23		0.065	D	0.370		0.035		0.340		0.0081	
APR 15,87	APR 14,87	3.94	UG	0.83	B	1.230	U	8.320		0.260	U	13.000	B	0.0000	
APR 23,87	APR 22,87	7.40	UG	1.52	UG	1.130		0.305		0.320		1.450		0.3236	
APR 24,87	APR 23,87	1.04		0.65		0.160	B	0.445		0.265		1.350		0.0891	
APR 28,87	APR 27,87	0.84		0.37		0.160	D	0.105		0.075		0.730	UG	0.0001	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM 802

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 29,87	APR 28,87	800	800	900	1100	1	1.4	1	64680	2	1		65		H
MAY 11,87	MAY 10,87	800	800	1500	1600	1	0.8	1	64681	2	1		74	AC	
MAY 12,87	MAY 11,87	800	800	2200	2300	1	3.0	1	64682	2	1		85	BC	JHM
MAY 15,87	MAY 14,87	800	800	1800	2100	1	10.8	1	64683	2	1		94	C	MM
MAY 19,87	MAY 18,87	800	800	900	1300	1	1.8	1	64684	2	1		113	BC	J
MAY 22,87	MAY 21,87	800	800	700	800	1	4.4	1	64686	2	1		103	B	
MAY 31,87	MAY 30,87	800	800	2200	2400	1	0.6	1	64687	2	1		80		H
JUN 2,87	JUN 1,87	800	800	700	1900	1	3.0	1	64688	2	1		89		H
JUN 12,87	JUN 11,87	800	800	500	600	1	9.8	1	64689	2	1		96	BC	
JUN 13,87	JUN 12,87	800	800	2100	2130	1	1.8	1	64690	2	1		80	A	H
JUN 14,87	JUN 13,87	800	900	2100	2200	1	1.2	1	64691	2	1		93		H
JUN 22,87	JUN 21,87	800	800	2100	2200	1	11.6	1	64692	2	1		*****	EI	
JUN 23,87	JUN 22,87	800	800	900	1100	1	3.4	1	64693	2	1		99	C	
JUN 26,87	JUN 25,87	800	800	100	200	1	5.0	1	64694	2	1		101		
JUN 28,87	JUN 27,87	800	800	2000	2100	1	5.1	1	64695	2	1		100		H
JUN 29,87	JUN 28,87	800	800	1400	1600	1	2.8	1	64696	2	1		97		JH
JUN 30,87	JUN 29,87	800	1000	1900	2100	1	1.0	1	64697	2	1		57		
JUL 4,87	JUL 3,87	800	900	1500	1700	1	6.2	1	64698	2	1		103		
JUL 14,87	JUL 13,87	800	800	2100	600	1	21.6	1	64700	2	1		110		
JUL 26,87	JUL 25,87	800	900	500	700	1	3.0	1	64703	2	1		87		
AUG 2,87	AUG 1,87	800	930	745	915	1	28.2	1	64704	2	1		103		J
AUG 3,87	AUG 2,87	930	800	1600	1700	1	10.8	1	64707	2	1		103		J
AUG 8,87	AUG 7,87	800	800	1900	2000	1	3.2	1	64708	2	1		95		
AUG 9,87	AUG 8,87	800	900	2100	900	1	14.0	1	64709	2	1		102	D	
AUG 10,87	AUG 9,87	900	800	900	1200	1	3.0	1	64710	2	1	U	93	J	
AUG 19,87	AUG 18,87	800	800	2000	2200	1	3.2	1	64711	2	1		78		H
AUG 22,87	AUG 21,87	800	800	2130	200	1	4.0	1	64712	2	1		95		J
AUG 27,87	AUG 26,87	800	800	1000	1700	1	23.8	1	64713	2	1		126		NJ
AUG 28,87	AUG 27,87	800	800	2300	500	1	2.0	1	64716	2	1		68		
AUG 29,87	AUG 28,87	800	800	1000	2000	1	2.0	1	64717	2	1		46		NH
AUG 31,87	AUG 30,87	800	800	2400	500	1	1.8	1	64718	2	1		84		
SEP 1,87	AUG 31,87	800	800	1100	1300	1	1.8	1	64719	2	1		86		
SEP 2,87	SEP 1,87	800	800	100	400	1	5.2	1	64720	2	1		91		HH
SEP 10,87	SEP 9,87	800	800	2400	600	1	2.0	1	64721	2	1		80		
SEP 12,87	SEP 11,87	800	800	1100	1400	1	7.6	1	64722	2	1		99		
SEP 13,87	SEP 12,87	800	800	300	500	1	8.0	1	64723	2	1		96		
SEP 16,87	SEP 15,87	800	800	900	1100	1	4.2	1	64724	2	1		*****	IEFK	
SEP 18,87	SEP 17,87	800	800	1700	1900	1	73.1	1	64725	2	1		109		J
SEP 20,87	SEP 19,87	800	800	815	1000	1	2.6	1	64728	2	1		71		
SEP 21,87	SEP 20,87	800	800	2200	200	1	7.8	1	64729	2	1		97		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM 802 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 29,87	APR 28,87	59.8		8.4		######		5.83		######		0.0207		1.75	LG	0.03
MAY 11,87	MAY 10,87	38.0		83.3		######	UG	7.68		######	LG	0.0012		12.65	UG	2.99
MAY 12,87	MAY 11,87	165.0		34.4	UG	5.68		6.63		######		0.0263		6.75		1.11
MAY 15,87	MAY 14,87	654.0	D	25.1		4.10		4.44		######		0.0648	D	3.70		0.45
MAY 19,87	MAY 18,87	131.0		93.1		3.94	B	7.69		######		0.0271	UG	16.35		2.09
MAY 22,87	MAY 21,87	293.0		45.0		4.09		4.17		######		0.1030		5.50		0.70
MAY 31,87	MAY 30,87	31.0		43.4		######		5.06		######		0.0359		6.90		1.89
JUN 2,87	JUN 1,87	172.0		55.2		3.93		4.07		######	D	0.1220		6.35		0.94
JUN 12,87	JUN 11,87	608.0		20.9		4.58		4.88		######		0.0383		3.45		0.49
JUN 13,87	JUN 12,87	93.0		28.6		######		5.65		######		0.0261		5.10		0.85
JUN 14,87	JUN 13,87	72.0		31.7		######		6.68		######		0.0207		4.35		1.21
JUN 22,87	JUN 21,87	######		######		######		######		######		######		######		######
JUN 23,87	JUN 22,87	217.0		66.4		3.73		3.88		######		0.1540		7.00		0.92
JUN 26,87	JUN 25,87	324.0	>	100.0		3.51		3.58		######		0.3060		11.00		1.55
JUN 28,87	JUN 27,87	328.0		12.3	UG	4.98		5.14		######		0.0261		1.65		0.25
JUN 29,87	JUN 28,87	175.0		29.1	UG	5.16		5.75		######		0.0254		5.70		1.15
JUN 30,87	JUN 29,87	37.0		52.1		######		4.06		######	IS	######		5.25		1.55
JUL 4,87	JUL 3,87	413.0		39.9		4.09		4.09		######		0.1070		4.80		0.55
JUL 14,87	JUL 13,87	1529.0		27.3		######		4.30		######		0.0712		2.80		0.55
JUL 26,87	JUL 25,87	169.0		33.0		######		4.96		######		0.0372		8.25		0.98
AUG 2,87	AUG 1,87	1876.0		21.0		3.85		4.48		######		0.0610		3.30		0.35
AUG 3,87	AUG 2,87	719.0		21.5		3.90		4.45		######		0.0635		2.85		0.38
AUG 8,87	AUG 7,87	196.0		53.0		3.95		4.19		######		0.1150		8.80		1.55
AUG 9,87	AUG 8,87	916.0		55.0		3.76		3.93		######		0.1640		6.95		0.55
AUG 10,87	AUG 9,87	179.0		41.0		3.88		4.07		######		0.1230		4.85		0.66
AUG 19,87	AUG 18,87	161.0		11.5		######		6.10		######		0.0190	D	1.80		0.47
AUG 22,87	AUG 21,87	245.0		37.0		3.69		4.14		######		0.1000		3.75		0.72
AUG 27,87	AUG 26,87	1934.0		25.0		3.76		4.28		######		0.0760		2.10		0.42
AUG 28,87	AUG 27,87	88.0		14.0		######		6.26		######		0.0208		1.80		0.73
AUG 29,87	AUG 28,87	60.0		13.0		######		6.13		######		0.0184		2.35		0.38
AUG 31,87	AUG 30,87	98.0		41.5		######		4.19		######		0.1020		5.30		0.78
SEP 1,87	AUG 31,87	100.0		32.0		4.09		4.33		######	D	0.0774	D	4.20		0.52
SEP 2,87	SEP 1,87	306.0	LG	4.0		######		5.48		######		0.0188	LG	0.45	LG	0.12
SEP 10,87	SEP 9,87	103.0		29.0	UG	6.48	UG	6.80		######		0.0178		6.65		0.84
SEP 12,87	SEP 11,87	486.0	<	100.0		3.54		3.60		######		0.2810		10.75		1.22
SEP 13,87	SEP 12,87	497.0		67.0		3.69		3.92		######		0.1810		6.95		0.83
SEP 16,87	SEP 15,87	######		######		######		######		######		######		######		######
SEP 18,87	SEP 17,87	5111.0		24.0		3.84		4.37		######		0.0714		2.70		0.45
SEP 20,87	SEP 19,87	119.0		46.0		3.78		3.99		######		0.1310		3.70		0.76
SEP 21,87	SEP 20,87	486.0		35.0		4.04		4.26		######		0.0853		3.60		0.90

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
APR 29,87	APR 28,87	0.18		0.08		0.030		0.040		0.040		0.445		0.0015	
MAY 11,87	MAY 10,87	6.68	U	1.30	UG	1.080	U	0.455	UG	0.250	UG	2.830	!IR	******	UG
MAY 12,87	MAY 11,87	2.16		0.42		0.410		0.245		0.135	UG	2.830		0.0002	
MAY 15,87	MAY 14,87	0.96		0.12		0.130		0.025	<T	0.015	D	0.585		0.0363	
MAY 19,87	MAY 18,87	1.72	D	1.68	B	0.375	D	9.870	U	0.175	U	18.750	B	0.0000	
MAY 22,87	MAY 21,87	0.60		0.46		0.100		0.330	B	0.220		0.765		0.0676	
MAY 31,87	MAY 30,87	2.98	D	0.50	D	0.620		0.245	B	0.215		0.705		0.0087	
JUN 2,87	JUN 1,87	1.10	D	0.22		0.170		0.110		0.090		1.000		0.0851	
JUN 12,87	JUN 11,87	1.04		0.16		0.210	B	0.475		0.025		0.155		0.0132	
JUN 13,87	JUN 12,87	0.84		0.27		0.185		0.190		0.105		1.700		0.0022	
JUN 14,87	JUN 13,87	1.30		0.34		0.280		0.180		0.095		1.950		0.0002	
JUN 22,87	JUN 21,87	******		******		******		******		******		******		******	
JUN 23,87	JUN 22,87	0.36		0.19		0.055		0.055		0.045		1.250		0.1318	
JUN 26,87	JUN 25,87	0.48		0.85		0.115		0.125		0.095		0.695		0.2630	
JUN 28,87	JUN 27,87	0.24		0.22		0.055		0.050		0.060		0.305		0.0072	
JUN 29,87	JUN 28,87	2.12	UG	0.90		0.450		0.105		0.060		0.830		0.0018	
JUN 30,87	JUN 29,87	!IS ******	UG	0.90	!IS	******	!IS	******	!IS	******		0.670		0.0871	
JUL 4,87	JUL 3,87	0.56	B	0.90		0.095		0.025	<T	0.005		0.490		0.0813	
JUL 14,87	JUL 13,87	0.48		0.15		0.090	!CR	******		0.020		0.320		0.0501	
JUL 26,87	JUL 25,87	3.10		0.39		0.540		0.085		0.055		0.515		0.0110	
AUG 2,87	AUG 1,87	0.64		0.15		0.090		0.030	<T	0.015		0.420		0.0331	
AUG 3,87	AUG 2,87	0.32		0.09		0.040	<T	0.015		0.025		0.430		0.0355	
AUG 8,87	AUG 7,87	2.28		0.53		0.450		0.160		0.095		1.100		0.0446	
AUG 9,87	AUG 8,87	0.28		0.14		0.055		0.060		0.030		0.540		0.1175	
AUG 10,87	AUG 9,87	0.16		0.13	<T	0.020		0.055		0.040		0.685		0.0851	
AUG 19,87	AUG 18,87	0.68	D	0.20		0.130	D	0.095	D	0.085		0.365		0.0008	
AUG 22,87	AUG 21,87	0.66		0.14		0.075		0.045		0.055		0.335		0.0724	
AUG 27,87	AUG 26,87	0.16		0.11		0.030		0.045		0.025	LQ	0.110		0.0525	
AUG 28,87	AUG 27,87	1.34		0.27		0.115		0.130		0.115		0.240		0.0005	
AUG 29,87	AUG 28,87	0.76		0.12		0.130		0.065	D	0.035		0.380		0.0007	
AUG 31,87	AUG 30,87	0.52		0.17		0.090		0.085	<T	0.020		0.900		0.0646	
SEP 1,87	AUG 31,87	0.38	D	0.20		0.070		0.080		0.040		0.665		0.0468	
SEP 2,87	SEP 1,87	<T 0.04	<T	0.03	<T	0.010		0.030	<T	0.020	LQ	0.100		0.0033	
SEP 10,87	SEP 9,87	2.38		0.41		0.340		0.165		0.165		1.000	UG	0.0002	
SEP 12,87	SEP 11,87	0.54		0.30		0.055		0.050	<T	0.015		0.645		0.2512	
SEP 13,87	SEP 12,87	0.16		0.15	<T	0.015		0.045	<T	0.015		0.625		0.1514	
SEP 16,87	SEP 15,87	******		******		******		******		******		******		******	
SEP 18,87	SEP 17,87	0.12		0.10	<T	0.015		0.045		0.030		0.575		0.0427	
SEP 20,87	SEP 19,87	<T 0.08		0.13	<T	0.010		0.075		0.040		0.185		0.1023	
SEP 21,87	SEP 20,87	0.44		0.16		0.075	D	0.085		0.030		0.725		0.0550	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM 802

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 30,87	SEP 29,87	800	800	1300	1600	1	3.5	1	64730	2	1	88		
OCT 2,87	OCT 1,87	800	800	300	400	1	2.6	1	64731	2	1	87		
OCT 3,87	OCT 2,87	800	800	2300	600	1	6.4	1	64732	2	1	94		H
OCT 6,87	OCT 5,87	800	800	2000	2400	1	1.3	1	64733	2	1	75		
OCT 8,87	OCT 7,87	800	800	100	800	1	9.4	1	64734	2	1	96		
OCT 12,87	OCT 11,87	800	800	2000	100	1	6.6	1	64735	2	1	111		HH
OCT 23,87	OCT 22,87	800	800	1400	2100	1	10.9	1	64737	2	1	82		H
OCT 25,87	OCT 24,87	800	800	1000	2200	1	18.2	1	64738	2	1	U 15	F	
OCT 27,87	OCT 26,87	800	800	****	****	1	14.8	1	64739	2	1	****	EF	
OCT 28,87	OCT 27,87	800	800	700	800	1	1.0	1	64740	2	1	35		N
OCT 29,87	OCT 28,87	800	800	800	845	1	2.2	1	64741	2	1	116		C
NOV 2,87	NOV 1,87	800	800	900	1100	1	0.8	1	64742	2	1	85		
NOV 3,87	NOV 2,87	800	800	500	700	1	1.9	1	64743	2	1	100		
NOV 9,87	NOV 8,87	800	800	1700	1900	1	3.0	1	64744	2	1	95		
NOV 14,87	NOV 13,87	800	800	2000	200	1	1.0	1	64745	2	1	82		H
NOV 17,87	NOV 16,87	800	1000	800	1000	1	1.0	1	64746	2	1	117		
NOV 21,87	NOV 20,87	800	800	1600	800	2	16.8	2	64747	2	1	69		J
NOV 22,87	NOV 21,87	800	800	1000	1700	2	3.4	2	64750	2	1	106		JHCH
NOV 25,87	NOV 24,87	800	800	200	800	1	14.2	2	64751	2	1	87	C	J
NOV 26,87	NOV 25,87	800	800	800	1900	1	33.0	2	64752	2	1	97		JH
NOV 29,87	NOV 28,87	800	800	1500	600	1	9.4	2	64753	2	1	95		JHH
DEC 1,87	NOV 30,87	800	800	100	800	1	1.0	2	64754	2	1	54		
DEC 2,87	DEC 1,87	800	800	2200	500	2	4.0	2	64755	2	1	56		JH
DEC 4,87	DEC 3,87	800	800	1200	2000	2	5.8	2	64756	2	1	65		J
DEC 5,87	DEC 4,87	800	800	200	800	1	5.6	2	64757	2	1	14		N
DEC 9,87	DEC 8,87	800	800	500	800	1	5.0	2	64758	2	1	113		
DEC 10,87	DEC 9,87	800	800	800	1000	1	1.8	2	64759	2	1	82	C	
DEC 12,87	DEC 11,87	800	800	1900	200	1	6.0	2	64760	2	1	109		
DEC 13,87	DEC 12,87	800	800	****	****	2	0.5	2	64761	2	1	****	E	N
DEC 15,87	DEC 14,87	800	800	200	800	3	19.4	2	64762	2	1	42		NJH
DEC 16,87	DEC 15,87	800	800	800	1300	3	11.4	2	64763	2	1	52	CD	H
DEC 17,87	DEC 16,87	800	800	800	1200	2	8.0	2	64764	2	1	****	FIKE	
DEC 20,87	DEC 19,87	800	900	1800	600	1	17.4	2	64765	2	1	104		
DEC 25,87	DEC 24,87	800	900	1200	2400	1	4.2	2	64768	2	1	119		
DEC 29,87	DEC 28,87	800	800	1900	2200	2	1.5	2	64769	2	1	61		CH

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
SEP 30,87	SEP 29,87	198.0		68.0		3.84		3.96		######		0.1490		7.85		0.85	
OCT 2,87	OCT 1,87	146.0		30.0	UG	6.73	UG	6.98		######		0.0185		5.35		0.89	
OCT 3,87	OCT 2,87	388.0	LG	3.0	UG	5.39		5.79		######		0.0181	LG	0.70	LG	0.08	
OCT 6,87	OCT 5,87	63.0		27.5		######		6.21		######		0.0213		4.30		1.16	
OCT 8,87	OCT 7,87	579.0	LG	3.5	UG	5.49		5.95		######		0.0193	LG	0.65	LG	0.07	
OCT 12,87	OCT 11,87	472.0		6.0	UG	6.10		6.69		######		0.0192	LG	0.75		0.19	
OCT 23,87	OCT 22,87	574.0		15.0		######		4.66		######		0.0451		2.00		0.54	
OCT 25,87	OCT 24,87	176.0	!IS	######		######	D	6.06		######	D	0.0223	!IS	######	!IS	######	
OCT 27,87	OCT 26,87	######		######		######		######		######		######		######		######	
OCT 28,87	OCT 27,87	23.0		9.0		######	B	8.24		######	D	0.0096	D	1.00		0.21	
OCT 29,87	OCT 28,87	165.0		12.0		######		4.68		######		0.0444		1.60		0.67	
NOV 2,87	NOV 1,87	44.0		71.0		######		3.93		######		0.1930		7.70	>	2.00	
NOV 3,87	NOV 2,87	122.0		59.0		3.69		3.97		######		0.1710		8.25		0.89	
NOV 9,87	NOV 8,87	184.0		26.0		4.18		4.41		######		0.0749		3.90		0.63	
NOV 14,87	NOV 13,87	53.0		23.0		######		5.04		######		0.0385		5.30		0.88	
NOV 17,87	NOV 16,87	75.0		10.0		######		5.43		######		0.0235		2.45		0.32	
NOV 21,87	NOV 20,87	753.0	LG	2.5	UG	5.32	UG	6.66		######		0.0170	LG	0.50	LG	0.07	
NOV 22,87	NOV 21,87	232.0	<T	0.5		4.94		5.99		######		0.0173	LG	0.30	<T	0.02	
NOV 25,87	NOV 24,87	795.0		19.0		3.71		4.38		######		0.0676		1.50		0.38	
NOV 26,87	NOV 25,87	2073.0		14.0		3.81		4.49		######		0.0565		1.15		0.18	
NOV 29,87	NOV 28,87	577.0		14.0		3.84		4.50		######		0.0520		1.25		0.28	
DEC 1,87	NOV 30,87	35.0		24.0		######	D	5.45		######		0.0339		3.05		0.65	
DEC 2,87	DEC 1,87	146.0		7.0		4.75		6.29		######		0.0191		0.85		0.15	
DEC 4,87	DEC 3,87	244.0		30.0		3.53		4.18		######		0.0934		2.10		0.84	
DEC 5,87	DEC 4,87	52.0	LG	3.5		######		6.20		######		0.0170		0.70	LG	0.09	
DEC 9,87	DEC 8,87	363.0		51.0		3.63		3.94		######		0.1310		4.35		0.72	
DEC 10,87	DEC 9,87	95.0		16.0		######		4.55		######		0.0456		1.70		0.33	
DEC 12,87	DEC 11,87	422.0		31.0		3.82		4.16		######		0.0874		1.75		0.84	
DEC 13,87	DEC 12,87	######		######		######		######		######		######		######		######	
DEC 15,87	DEC 14,87	533.0		12.0		4.20		5.63		######		0.0238		2.15		0.20	
DEC 16,87	DEC 15,87	382.0		23.0		4.32		4.38		######		0.0704		2.15		0.41	
DEC 17,87	DEC 16,87	######		######		######		######		######		######		######		######	
DEC 20,87	DEC 19,87	1171.0		31.0		######		4.26		######		0.0869		2.20		0.54	
DEC 25,87	DEC 24,87	323.0	D	38.0		4.16		4.18		######	D	0.1040	D	3.05		0.68	
DEC 29,87	DEC 28,87	59.0		10.0		######	UG	7.20		######		0.0157		0.55		0.30	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM SO2

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
SEP 30,87	SEP 29,87	0.90		0.47		0.120		0.135		0.150		0.830		0.1096	
OCT 2,87	OCT 1,87	2.30		0.16		0.300		0.195	UG	0.260		1.050	UG	0.0001	
OCT 3,87	OCT 2,87	0.14		0.14		0.025		0.045		0.030		0.150		0.0016	
OCT 6,87	OCT 5,87	2.08		0.56		0.360	UG	0.385	UG	0.265		0.640		0.0006	
OCT 8,87	OCT 7,87	0.10		0.12	<T	0.020		0.080		0.060		0.150		0.0011	
OCT 12,87	OCT 11,87	0.22		0.10		0.030		0.060		0.050		0.330		0.0002	
OCT 23,87	OCT 22,87	0.20	D	0.31		0.035	D	0.090	D	0.085		0.465		0.0219	
OCT 25,87	OCT 24,87	!IS ######		!IS ######		!IS ######		!IS ######		!IS ######		!IS ######	D	0.0009	
OCT 27,87	OCT 26,87	######		######		######		######		######		######		######	
OCT 28,87	OCT 27,87	D 0.28	B	1.27		0.045	B	0.760	B	0.710		!IS ######	B	0.0000	
OCT 29,87	OCT 28,87	0.54		0.30		0.090		0.080		0.105		0.385		0.0209	
NOV 2,87	NOV 1,87	1.20		0.83		0.170		0.275		0.335		0.850		0.1175	
NOV 3,87	NOV 2,87	0.64		0.70		0.075		0.205		0.380		0.665		0.1072	
NOV 9,87	NOV 8,87	0.70		0.67		0.080	D	0.350	D	0.315		0.415		0.0389	
NOV 14,87	NOV 13,87	2.04		0.50		0.325		0.150		0.150		0.685		0.0091	
NOV 17,87	NOV 16,87	1.06		0.49		0.210		0.085		0.220	LG	0.045		0.0037	
NOV 21,87	NOV 20,87	0.30		0.27		0.060		0.085		0.120		0.085	UG	0.0002	
NOV 22,87	NOV 21,87	<T 0.06		0.16	<T	0.020	<T	0.020		0.075	LG	0.030		0.0010	
NOV 25,87	NOV 24,87	0.20		0.15		0.035	D	0.135		0.045		0.150		0.0417	
NOV 26,87	NOV 25,87	<T 0.06		0.08	<T	0.010	D	0.055	D	0.035		0.135		0.0324	
NOV 29,87	NOV 28,87	0.18		0.05		0.040	<T	0.020		0.035	D	0.170		0.0316	
DEC 1,87	NOV 30,87	D 0.64	B	2.10	D	0.105	B	1.400	B	1.270	!IS	######	D	0.0035	
DEC 2,87	DEC 1,87	0.30	D	0.42		0.045	D	0.300		0.250		0.280		0.0005	
DEC 4,87	DEC 3,87	0.32		0.31		0.045	<T	0.025		0.065		0.480		0.0661	
DEC 5,87	DEC 4,87	0.22		0.15		0.040		0.050		0.120		0.205		0.0006	
DEC 9,87	DEC 8,87	0.26		0.92		0.070		0.085		0.455		0.230		0.1148	
DEC 10,87	DEC 9,87	D 0.28		0.12	D	0.035		0.080		0.080		0.105		0.0282	
DEC 12,87	DEC 11,87	0.22		0.11		0.035	<T	0.015		0.030		0.235		0.0692	
DEC 13,87	DEC 12,87	######		######		######		######		######		######		######	
DEC 15,87	DEC 14,87	0.28		0.91		0.045	B	0.440	D	0.435		0.365		0.0023	
DEC 16,87	DEC 15,87	0.60	D	0.40		0.075	D	0.135	D	0.135		0.205		0.0417	
DEC 17,87	DEC 16,87	######		######		######		######		######		######		######	
DEC 20,87	DEC 19,87	0.16		0.12		0.030	<T	0.015		0.045		0.275		0.0550	
DEC 25,87	DEC 24,87	0.24		0.22		0.030	<T	0.025		0.075		0.400		0.0661	
DEC 29,87	DEC 28,87	1.14		0.15		0.195		0.035		0.060	LG	0.030	UG	0.0001	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM 901

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,87	JAN 1,87	800	800	****	****	2	4.8	2	61372	2	1	50		
JAN 3,87	JAN 2,87	800	800	****	****	2	1.0	2	61373	2	1	34		N
JAN 7,87	JAN 6,87	800	800	****	****	2	0.2	2	61374	2	1	140		N
JAN 10,87	JAN 9,87	800	800	2330	700	2	9.0	2	61375	2	1	40		NH
JAN 11,87	JAN 10,87	800	800	830	1600	2	0.8	2	61376	2	1	58		X
JAN 15,87	JAN 14,87	800	800	1900	2400	1	4.8	2	61377	2	1	99		
JAN 19,87	JAN 18,87	800	800	900	1100	2	6.6	2	61378	2	1	82		
JAN 20,87	JAN 19,87	800	800	1200	1830	2	8.8	2	61379	2	1	17		NC
JAN 23,87	JAN 22,87	800	800	2100	130	2	0.8	2	61380	2	1	79		
JAN 30,87	JAN 29,87	800	800	****	800	2	2.4	2	61382	2	1	47		N
JAN 31,87	JAN 30,87	800	800	****	****	2	2.0	2	61383	2	1	59		
FEB 9,87	FEB 8,87	800	800	1300	2000	2	1.6	2	61384	2	1	****	FEI	
FEB 12,87	FEB 11,87	800	800	****	****	2	1.4	2	61385	2	1	82		
FEB 13,87	FEB 12,87	800	800	****	****	2	0.8	2	61386	2	1	46		N
FEB 14,87	FEB 13,87	800	800	1200	1500	2	0.8	2	61387	2	1	78	E	
FEB 23,87	FEB 22,87	800	800	830	1000	2	1.8	2	61388	2	1	78		
FEB 28,87	FEB 27,87	800	800	300	800	1	0.6	2	61389	2	1	135		N
MAR 1,87	FEB 28,87	800	800	2200	900	1	8.0	2	61390	2	1	100		
MAR 2,87	MAR 1,87	800	800	800	2000	3	6.0	2	61391	2	1	85		
MAR 4,87	MAR 3,87	800	800	900	1200	2	0.4	2	61392	2	1	****	EK	
MAR 12,87	MAR 11,87	800	800	****	****	1	0.1	2	61393	2	1	****	EK	
MAR 14,87	MAR 13,87	800	800	500	800	2	0.6	2	61394	2	1	64		
MAR 15,87	MAR 14,87	800	800	800	1000	2	0.4	2	61395	2	1	42		N
MAR 25,87	MAR 24,87	800	800	****	****	1	0.6	1	61396	2	1	59		
MAR 26,87	MAR 25,87	800	800	2200	2400	1	0.8	1	61397	2	1	52		
MAR 27,87	MAR 26,87	800	800	1000	1200	1	1.0	1	61398	2	1	79		
MAR 30,87	MAR 29,87	800	800	2100	800	1	17.0	1	61399	2	1	96		
MAR 31,87	MAR 30,87	800	800	****	****	2	5.8	2	61400	2	1	35		NC
APR 1,87	MAR 31,87	800	800	1000	1200	2	1.0	2	61401	2	1	4	E	N
APR 2,87	APR 1,87	800	800	2000	100	3	7.2	2	61402	2	1	78		
APR 5,87	APR 4,87	800	800	1100	400	1	5.8	2	61403	2	1	105		
APR 6,87	APR 5,87	800	800	1400	2000	1	3.4	2	61404	2	1	110		
APR 7,87	APR 6,87	800	800	1900	2000	1	0.6	2	61405	2	1	13	E	N
APR 12,87	APR 11,87	800	800	400	800	1	13.8	1	61406	2	1	100		
APR 13,87	APR 12,87	800	800	800	600	1	1.2	1	61407	2	1	66		
APR 14,87	APR 13,87	800	800	****	****	1	0.2	1	61408	2	1	****	KE	
APR 15,87	APR 14,87	800	800	1400	1600	1	3.8	1	61409	2	1	94		
APR 23,87	APR 22,87	800	800	500	800	1	1.4	1	61410	2	1	72	A	
APR 24,87	APR 23,87	800	800	800	1000	1	1.8	1	61411	2	1	78		
APR 28,87	APR 27,87	800	800	1430	1600	1	9.4	1	61412	2	1	88	AB	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JAN 2,87	JAN 1,87	156.0		24.5		******		4.20		******		0.0664		LG 0.50		0.72
JAN 3,87	JAN 2,87	22.0		7.3		******		5.57		******		0.0199		0.55		0.27
JAN 7,87	JAN 6,87	18.0	D	34.1		******	D	4.28		******	D	0.0666		2.45		1.24
JAN 10,87	JAN 9,87	232.0		47.5		4.04		3.94		******		0.1150		3.30		0.94
JAN 11,87	JAN 10,87	30.0		******		******		******		******		******		******		******
JAN 15,87	JAN 14,87	307.0		44.6		4.08		3.99		******		0.1140		2.95		0.79
JAN 19,87	JAN 18,87	349.0		31.2		4.25	D	4.13		******		0.0797		2.25		0.53
JAN 20,87	JAN 19,87	100.0	LG	5.0	UG	5.35		5.41		******	D	0.0199	LG	0.45	LG	0.09
JAN 23,87	JAN 22,87	41.0		45.1		******		3.97		******		0.1080		1.20		1.18
JAN 30,87	JAN 29,87	73.0		73.7		******		3.80		******		0.1920		4.35		1.61
JAN 31,87	JAN 30,87	76.0		58.2		******		3.94		******		0.1470		3.90		1.05
FEB 9,87	FEB 8,87	******		******		******		******		******		******		******		******
FEB 12,87	FEB 11,87	74.0		50.4		******		4.04		******		0.1150		2.40		1.79
FEB 13,87	FEB 12,87	24.0		27.9		******		4.33		******		0.0678		1.65		0.78
FEB 14,87	FEB 13,87	40.0		******		******		******		******		******		******		******
FEB 23,87	FEB 22,87	90.0	>	100.0		******		3.80		******		0.1860	UG	8.40	UG	3.45
FEB 28,87	FEB 27,87	52.0		76.2		******	<=>	3.75		******		0.2080		7.35		2.18
MAR 1,87	FEB 28,87	514.0		31.7		4.16		4.31		******	D	0.0838		1.80		0.58
MAR 2,87	MAR 1,87	329.0		24.1		4.33		4.44		******		0.0651	D	1.85		0.43
MAR 4,87	MAR 3,87	******		******		******		******		******		******		******		******
MAR 12,87	MAR 11,87	******		******		******		******		******		******		******		******
MAR 14,87	MAR 13,87	25.0		20.0		******		4.39		******		0.0555	LG	0.35		0.91
MAR 15,87	MAR 14,87	11.0		14.5		******		4.51		******		0.0449	LG	0.35		0.41
MAR 25,87	MAR 24,87	23.0		36.9		******		4.36		******		0.0753		5.20		0.91
MAR 26,87	MAR 25,87	27.0		50.9		******		4.29		******		0.0877		5.95		1.80
MAR 27,87	MAR 26,87	51.0	D	57.4		******		4.09		******		0.1290	D	6.60		1.51
MAR 30,87	MAR 29,87	1052.0		28.1		4.21		4.31		******		0.0755		2.70		0.48
MAR 31,87	MAR 30,87	133.0		9.9		4.75		4.96		******		0.0273		0.95		0.13
APR 1,87	MAR 31,87	3.0		******		******		******		******		******		******		******
APR 2,87	APR 1,87	361.0		56.0		3.96		4.03		******		0.1300		3.70		1.85
APR 5,87	APR 4,87	394.0		11.7		4.60		4.82		******		0.0340	D	1.20		0.16
APR 6,87	APR 5,87	241.0		21.1		4.40		4.54		******		0.0513		2.65		0.25
APR 7,87	APR 6,87	5.0		******		******		******		******		******		******		******
APR 12,87	APR 11,87	893.0		17.0		******		4.45		******		0.0552		2.10		0.36
APR 13,87	APR 12,87	51.0		20.0		******		4.41		******		0.0636		2.15		0.54
APR 14,87	APR 13,87	******		******		******		******		******		******		******		******
APR 15,87	APR 14,87	231.0		90.0		******		3.67		******		0.2600	UG	11.00		1.29
APR 23,87	APR 22,87	65.0	>	100.0		******	D	3.91		******		0.1980	UG	22.00	UG	6.20
APR 24,87	APR 23,87	91.0		71.0		******		3.81		******		0.2000	UG	8.65		1.20
APR 28,87	APR 27,87	535.0		19.0	D	4.40	D	4.81		******	D	0.0390		2.65		0.69

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
API03 - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JAN 2,87	JAN 1,87	0.12		0.21		<T 0.015		<T 0.020		0.030		0.110		0.0631	
JAN 3,87	JAN 2,87	0.24		0.12		0.040		0.025		0.080		0.205		0.0027	
JAN 7,87	JAN 6,87	1.16		0.38		0.150		0.095		0.210	D	0.450	D	0.0525	
JAN 10,87	JAN 9,87	0.22		0.25		0.035		0.040		0.060		0.560		0.1148	
JAN 11,87	JAN 10,87	******		******		******		******		******		******		******	
JAN 15,87	JAN 14,87	0.14		0.24		<T 0.020		0.050		0.040		0.345		0.1023	
JAN 19,87	JAN 18,87	0.24		0.28		0.035		<T 0.015		0.040		0.250	D	0.0741	
JAN 20,87	JAN 19,87	0.14		0.04		0.025		<T 0.020		0.035		0.065		0.0039	
JAN 23,87	JAN 22,87	0.38		1.10		0.065		0.035		0.260		0.250		0.1072	
JAN 30,87	JAN 29,87	0.36		0.44		0.060		0.030		0.125		0.730		0.1585	
JAN 31,87	JAN 30,87	0.10		0.48		<T 0.025		0.050		0.100		0.715		0.1148	
FEB 9,87	FEB 8,87	******		******		******		******		******		******		******	
FEB 12,87	FEB 11,87	0.94		0.65		0.130		0.040		0.265		0.480		0.0912	
FEB 13,87	FEB 12,87	0.34		0.49		0.040		<T 0.020		0.360		0.375		0.0468	
FEB 14,87	FEB 13,87	******		******		******		******		******		******		******	
FEB 23,87	FEB 22,87	UG 3.60		1.11		0.555		0.040		0.455		1.000		0.1585	
FEB 28,87	FEB 27,87	1.26		1.28		0.175		0.225		0.620		0.415	<e>	0.1778	
MAR 1,87	FEB 28,87	0.12		0.15		<T 0.025		<T 0.015		0.055		0.165		0.0490	
MAR 2,87	MAR 1,87	0.20		0.17		<T 0.025		0.035		0.050		0.250		0.0363	
MAR 4,87	MAR 3,87	******		******		******		******		******		******		******	
MAR 12,87	MAR 11,87	******		******		******		******		******		******		******	
MAR 14,87	MAR 13,87	0.52		0.21		0.080		0.030		0.065		0.100		0.0407	
MAR 15,87	MAR 14,87	0.12		0.21		<T 0.015		0.030		0.100	LG	0.035		0.0309	
MAR 25,87	MAR 24,87	1.84		0.47		0.280		0.100		0.220	IS	******		0.0437	
MAR 26,87	MAR 25,87	1.94		0.51		0.340		0.135		0.235	IS	******		0.0513	
MAR 27,87	MAR 26,87	0.58		0.61		0.100		0.090		0.125		1.970		0.0813	
MAR 30,87	MAR 29,87	0.14		0.12		0.030		0.030		0.045		0.455		0.0490	
MAR 31,87	MAR 30,87	<T 0.08		0.09		<T 0.015		0.055		0.065		0.110		0.0110	
APR 1,87	MAR 31,87	******		******		******		******		******		******		******	
APR 2,87	APR 1,87	D 1.04	D	0.62	D	0.155		0.045	D	0.160		0.900		0.0933	
APR 5,87	APR 4,87	<T 0.04	D	0.08	<T	0.010	<T	0.015	D	0.040	D	0.240		0.0151	
APR 6,87	APR 5,87	0.10		0.34		0.030		0.050		0.200		0.500		0.0288	
APR 7,87	APR 6,87	******		******		******		******		******		******		******	
APR 12,87	APR 11,87	0.28		0.21		0.035	<W	0.005	<T	0.010		0.300		0.0355	
APR 13,87	APR 12,87	0.14		0.22	<T	0.015	<T	0.015		0.025		0.470		0.0389	
APR 14,87	APR 13,87	******		******		******		******		******		******		******	
APR 15,87	APR 14,87	0.78		0.52		0.100		0.085		0.130		1.000		0.2138	
APR 23,87	APR 22,87	U 10.40	UG	1.85	U	1.620	B	0.510		0.510		2.100	D	0.1230	
APR 24,87	APR 23,87	0.72		0.42		0.100		0.095		0.150		1.250		0.1549	
APR 28,87	APR 27,87	0.68		0.29		0.115		0.065		0.050		0.760	D	0.0155	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 29,87	APR 28,87	800	800	930	1200	1	0.2	1	61413	2	1	****	E	N
MAY 11,87	MAY 10,87	800	800	1430	1530	1	0.2	1	61414	2	1	****	E	N
MAY 12,87	MAY 11,87	800	800	2200	2230	1	2.2	1	61415	2	1	U 96	FJCB	JH
MAY 15,87	MAY 14,87	800	800	****	****	1	19.0	1	61416	2	1	58		
MAY 18,87	MAY 17,87	800	800	****	****	1	3.2	1	61417	2	1	90	AB	
MAY 19,87	MAY 18,87	800	800	900	1200	1	1.4	1	61418	2	1	61		
MAY 20,87	MAY 19,87	800	800	****	****	1	1.0	1	61420	2	1	76		
MAY 25,87	MAY 24,87	800	800	****	****	1	0.3	1	61421	2	1	****	E	N
MAY 26,87	MAY 25,87	800	800	****	****	1	0.2	1	61422	2	1	****	E	N
MAY 27,87	MAY 26,87	800	800	1500	1530	1	3.6	1	61423	2	1	94		
MAY 31,87	MAY 30,87	800	800	2300	****	1	0.6	1	61424	2	1	36		N
JUN 1,87	MAY 31,87	800	800	1700	1730	1	7.8	1	61425	2	1	102		
JUN 3,87	JUN 2,87	800	800	****	****	1	4.0	1	61426	2	1	88	BCD	JHM
JUN 7,87	JUN 6,87	800	800	2200	2230	1	0.4	1	61427	2	1	89		
JUN 12,87	JUN 11,87	800	800	100	500	1	23.2	1	61428	2	1	27		N
JUN 14,87	JUN 13,87	800	800	2100	2400	1	0.8	1	61429	2	1	62		N
JUN 22,87	JUN 21,87	800	800	****	****	1	18.0	1	61430	2	1	104		
JUN 23,87	JUN 22,87	800	800	****	****	1	1.0	1	61431	2	1	56	A	
JUN 26,87	JUN 25,87	800	800	****	****	1	3.6	1	61432	2	1	87		C
JUN 27,87	JUN 26,87	800	800	****	****	1	1.3	1	61433	2	1	69		
JUN 28,87	JUN 27,87	800	800	****	****	1	1.4	1	61434	2	1	45		NH
JUN 30,87	JUN 29,87	800	800	****	****	1	1.4	1	61435	2	1	85		
JUL 1,87	JUN 30,87	800	800	****	****	1	0.8	1	61436	2	1	64		
JUL 4,87	JUL 3,87	800	800	****	****	1	1.4	1	61437	2	1	109	C	
JUL 6,87	JUL 5,87	800	800	****	****	1	0.2	1	61438	2	1	****	E	N
JUL 10,87	JUL 9,87	800	800	****	****	1	4.0	1	61439	2	1	103		
JUL 11,87	JUL 10,87	800	800	****	****	1	0.2	1	61440	2	1	****	E	N
JUL 14,87	JUL 13,87	800	800	2000	500	1	18.4	1	61441	2	1	37		NJ
AUG 2,87	AUG 1,87	800	800	****	****	1	0.1	1	61442	2	1	****	E	N
AUG 3,87	AUG 2,87	930	800	800	1000	1	37.2	1	61443	2	1	99		J
AUG 8,87	AUG 7,87	800	800	1900	2000	1	1.6	1	61444	2	1	77		
AUG 9,87	AUG 8,87	800	1200	1800	1200	1	31.0	1	61445	2	1	108		
AUG 18,87	AUG 17,87	800	800	1830	2030	1	2.2	1	61446	2	1	95		X
AUG 22,87	AUG 21,87	800	800	2130	2330	1	7.6	1	61447	2	1	95		
AUG 27,87	AUG 26,87	800	800	****	****	1	17.0	1	61448	2	1	114		
AUG 28,87	AUG 27,87	800	800	****	****	1	1.6	1	61449	2	1	85		
AUG 29,87	AUG 28,87	800	800	1000	2000	1	1.2	1	61450	2	1	93		
AUG 31,87	AUG 30,87	800	800	2400	500	1	1.4	1	61451	2	1	93		
SEP 2,87	SEP 1,87	800	800	100	400	1	5.4	1	61453	2	1	103		
SEP 12,87	SEP 11,87	800	800	1100	1400	1	9.0	1	61454	2	1	101		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
APR 29,87	APR 28,87	******		******		******		******		******		******		******		******	
MAY 11,87	MAY 10,87	******		******		******		******		******		******		******		******	
MAY 12,87	MAY 11,87	136.0		42.4	UG	6.66	UG	7.37		******		0.0241		5.60		0.94	
MAY 15,87	MAY 14,87	710.0		35.8		4.10		4.33		******		0.0771		5.40		0.66	
MAY 18,87	MAY 17,87	186.0		93.1		3.51		3.67		******		0.2700		14.35		1.77	
MAY 19,87	MAY 18,87	55.0		93.1		******		3.65		******	D	0.2700		13.55		1.36	
MAY 20,87	MAY 19,87	49.0	D	46.0		******	D	4.25		******	D	0.0871		5.30		1.31	
MAY 25,87	MAY 24,87	******		******		******		******		******		******		******		******	
MAY 26,87	MAY 25,87	******		******		******		******		******		******		******		******	
MAY 27,87	MAY 26,87	217.0		58.2		******		3.94		******		0.1400		5.25		1.10	
MAY 31,87	MAY 30,87	14.0		49.6		******		4.08		******	D	0.1160		5.15		1.09	
JUN 1,87	MAY 31,87	512.0		40.9		4.04		4.15		******		0.0958		4.80		0.68	
JUN 3,87	JUN 2,87	227.0		41.4	UG	6.55	UG	7.23		******		0.0352		5.90		0.34	
JUN 7,87	JUN 6,87	23.0	D	49.0		******		5.58		******		0.0295	D	7.90	<=>	2.10	
JUN 12,87	JUN 11,87	408.0		29.1		4.11		4.21		******		0.0794		2.90		0.36	
JUN 14,87	JUN 13,87	32.0		24.5		******		6.12		******		0.0218		4.10		0.85	
JUN 22,87	JUN 21,87	1209.0	D	46.0	D	4.00	D	3.97		******	D	0.1270	D	4.55		0.55	
JUN 23,87	JUN 22,87	36.0	>	100.0		******		3.57		******		0.3210		14.00		2.00	
JUN 26,87	JUN 25,87	203.0	>	100.0		3.52		3.52		******		0.3350		12.00		1.75	
JUN 27,87	JUN 26,87	58.0		26.9		******		4.83		******		0.0393		4.45		0.90	
JUN 28,87	JUN 27,87	41.0		22.2		******		4.71		******		0.0423		3.40		0.55	
JUN 30,87	JUN 29,87	77.0		73.9		******		3.83		******		0.1800		7.15		1.50	
JUL 1,87	JUN 30,87	33.0		23.8		******		4.58		******		0.0501		2.15		0.80	
JUL 4,87	JUL 3,87	98.0		72.3		******		3.86		******		0.1720	D	9.05		1.05	
JUL 6,87	JUL 5,87	******		******		******		******		******		******		******		******	
JUL 10,87	JUL 9,87	266.0		47.9		******		4.00		******		0.1200		4.40		0.85	
JUL 11,87	JUL 10,87	******		******		******		******		******		******		******		******	
JUL 14,87	JUL 13,87	445.0		24.9	D	3.72		4.31		******		0.0660		2.50		0.50	
AUG 2,87	AUG 1,87	******		******		******		******		******		******		******		******	
AUG 3,87	AUG 2,87	2375.0		23.5		3.90		4.39		******		0.0672		3.20		0.40	
AUG 8,87	AUG 7,87	79.0		56.0		******		4.55		******		0.0653		10.35		2.45	
AUG 9,87	AUG 8,87	2155.0		42.0		3.88		4.02		******		0.1240		5.00		0.44	
AUG 18,87	AUG 17,87	135.0		******		******		******		******		******		******		******	
AUG 22,87	AUG 21,87	467.0		******		3.80		******		******		******		******		******	
AUG 27,87	AUG 26,87	1253.0		33.0		3.97		4.11		******		0.0937	D	2.60		0.54	
AUG 28,87	AUG 27,87	88.0		20.5		******		4.75		******		0.0421		2.75		0.85	
AUG 29,87	AUG 28,87	72.0		16.0		******		4.94		******	D	0.0378		2.70		0.45	
AUG 31,87	AUG 30,87	84.0		46.5		******		4.15		******		0.1000		6.00		0.95	
SEP 2,87	SEP 1,87	357.0	D	8.5		******		4.95		******	D	0.0287		1.00		0.23	
SEP 12,87	SEP 11,87	583.0		99.0		3.54		3.63		******	U	0.0133		10.35		1.15	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIN MG/L		POTASSIN MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
APR 29,87	APR 28,87	******		******		******		******		******		******		******	
MAY 11,87	MAY 10,87	******		******		******		******		******		******		******	
MAY 12,87	MAY 11,87	2.88		0.41		0.610	U	1.860		0.090		1.930	UG	0.0000	
MAY 15,87	MAY 14,87	0.66		0.17		0.115	D	0.115	<T	0.020		0.910		0.0468	
MAY 18,87	MAY 17,87	1.68		0.41		0.310		0.195		0.055		1.630		0.2138	
MAY 19,87	MAY 18,87	0.38		0.33		0.065		0.050		0.050	UG	2.750		0.2239	
MAY 20,87	MAY 19,87	1.18		0.24		0.250	D	0.070		0.050	D	1.000	D	0.0562	
MAY 25,87	MAY 24,87	******		******		******		******		******		******		******	
MAY 26,87	MAY 25,87	******		******		******		******		******		******		******	
MAY 27,87	MAY 26,87	0.60		0.21		0.085		0.050		0.040		0.600		0.1148	
MAY 31,87	MAY 30,87	0.82		0.27		0.170		0.120		0.095		0.550		0.0832	
JUN 1,87	MAY 31,87	0.58		0.12		0.090		0.100		0.045		0.605		0.0708	
JUN 3,87	JUN 2,87	1.70		0.23		0.490	U	4.270		0.075		1.350	UG	0.0001	
JUN 7,87	JUN 6,87	2.80	D	0.57		0.585		0.165		0.070		2.200		0.0026	
JUN 12,87	JUN 11,87	0.22	<T	0.02		0.035		0.025	<T	0.020		0.205		0.0617	
JUN 14,87	JUN 13,87	0.98		0.22		0.210		0.085		0.065		1.350		0.0008	
JUN 22,87	JUN 21,87	D 0.10		0.15	<T	0.015	<T	0.015	D	0.025		0.375	D	0.1072	
JUN 23,87	JUN 22,87	!IS ******		0.40	!IS	******	!IS	******	!IS	******	UG	3.850		0.2692	
JUN 26,87	JUN 25,87	0.48		0.35		0.125		0.050		0.035		0.740		0.3020	
JUN 27,87	JUN 26,87	1.24		0.30		0.220		0.100		0.050		0.835		0.0148	
JUN 28,87	JUN 27,87	0.92		0.25		0.190		0.040		0.040	D	0.590		0.0195	
JUN 30,87	JUN 29,87	1.10		0.35		0.235		0.065		0.070		0.770		0.1479	
JUL 1,87	JUN 30,87	0.42		0.25		0.090		0.030		0.030		0.710		0.0263	
JUL 4,87	JUL 3,87	1.22		0.25		0.210	D	0.140		0.045		0.950		0.1380	
JUL 6,87	JUL 5,87	******		******		******		******		******		******		******	
JUL 10,87	JUL 9,87	0.66		0.25		0.125		0.170		0.055		0.370		0.1000	
JUL 11,87	JUL 10,87	******		******		******		******		******		******		******	
JUL 14,87	JUL 13,87	0.28		0.15		0.050		0.035	<T	0.020		0.330		0.0490	
AUG 2,87	AUG 1,87	******		******		******		******		******		******		******	
AUG 3,87	AUG 2,87	0.28		0.10		0.040		0.025		0.025		0.500		0.0407	
AUG 8,87	AUG 7,87	3.76		0.60		0.805		0.145		0.085		1.400		0.0282	
AUG 9,87	AUG 8,87	0.22		0.10		0.035	<M	0.005		0.030		0.355		0.0955	
AUG 18,87	AUG 17,87	******		******		******		******		******		******		******	
AUG 22,87	AUG 21,87	******		******		******		******		******		******		******	
AUG 27,87	AUG 26,87	0.12		0.11		0.025	<M	0.005	<T	0.020		0.155		0.0776	
AUG 28,87	AUG 27,87	1.34		0.16		0.100		0.050		0.055		0.250		0.0178	
AUG 29,87	AUG 28,87	0.74		0.13		0.105		0.030		0.025		0.460		0.0115	
AUG 31,87	AUG 30,87	0.74		0.19		0.125		0.130		0.030		1.100		0.0708	
SEP 2,87	SEP 1,87	0.14	<T	0.05	<T	0.020	<T	0.020	<T	0.015		0.190		0.0112	
SEP 12,87	SEP 11,87	0.34		0.32		0.040		0.040		0.030		0.715		0.2344	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 13,87	SEP 12,87	800	800	300	500	1	14.6	1	61455	2	1	99		
SEP 17,87	SEP 16,87	800	800	1430	****	1	4.4	1	61456	2	1	88		
SEP 18,87	SEP 17,87	800	800	****	****	1	16.8	1	61457	2	1	105		
SEP 20,87	SEP 18,87	800	800	****	****	1	9.6	1	61458	2	1	93		YZ
SEP 21,87	SEP 20,87	800	800	2200	200	1	12.8	1	61459	2	1	105		
SEP 22,87	SEP 21,87	800	800	****	****	1	7.8	1	61460	2	1	95		
SEP 23,87	SEP 22,87	800	800	****	****	1	0.2	1	61461	2	1	****	E	N
SEP 30,87	SEP 29,87	800	800	****	****	1	4.2	1	61462	2	1	94		
OCT 1,87	SEP 30,87	800	800	****	****	1	3.0	1	61463	2	1	84		
OCT 2,87	OCT 1,87	800	800	****	****	1	1.8	1	61464	2	1	74		
OCT 3,87	OCT 2,87	800	800	****	****	1	4.6	1	61465	2	1	85		
OCT 5,87	OCT 4,87	800	800	****	****	1	1.4	1	61466	2	1	80		
OCT 7,87	OCT 6,87	800	800	****	****	1	****	1	61467	2	1	****		
OCT 8,87	OCT 7,87	800	800	****	****	1	****	1	61468	2	1	****		H
OCT 11,87	OCT 10,87	800	800	****	****	1	9.6	1	61469	2	1	95		HH
OCT 17,87	OCT 16,87	800	800	****	****	1	5.4	1	61470	2	1	89		
OCT 21,87	OCT 20,87	800	800	****	****	1	2.8	1	61471	2	1	86		
OCT 22,87	OCT 21,87	800	800	****	****	1	1.8	1	61472	2	1	55		
OCT 23,87	OCT 22,87	800	800	****	****	1	11.4	1	61473	2	1	87		
OCT 24,87	OCT 23,87	800	800	****	****	1	1.4	1	61474	2	1	50		
OCT 25,87	OCT 24,87	800	800	****	****	1	15.0	1	61475	2	1	91		
OCT 27,87	OCT 26,87	800	800	****	****	1	14.1	1	61476	2	1	97		
OCT 28,87	OCT 27,87	800	800	****	****	1	3.0	1	61477	2	1	75		
NOV 1,87	OCT 31,87	800	1500	****	****	1	4.0	1	61478	2	1	95		
NOV 3,87	NOV 2,87	800	800	****	****	1	0.6	1	61479	2	1	88		
NOV 4,87	NOV 3,87	800	800	****	****	1	1.6	1	61480	2	1	92		
NOV 5,87	NOV 4,87	800	800	****	****	1	0.6	1	61481	2	1	57		
NOV 6,87	NOV 5,87	800	800	****	****	1	2.1	1	61482	2	1	49		NH
NOV 8,87	NOV 7,87	800	800	****	****	1	4.2	1	61483	2	1	83		
NOV 9,87	NOV 8,87	800	800	****	****	1	2.8	1	61484	2	1	110		
NOV 14,87	NOV 13,87	800	800	2000	200	1	1.4	1	61485	2	1	43		N
NOV 18,87	NOV 17,87	800	800	830	1000	1	2.6	1	61486	2	1	63		JH
NOV 19,87	NOV 18,87	800	800	1430	****	1	0.6	1	61487	2	1	28		NH
NOV 21,87	NOV 20,87	800	800	****	****	2	2.5	2	61488	2	1	266		NJHCH
NOV 22,87	NOV 21,87	800	800	****	****	2	****	2	61489	2	1	****	P	JC
NOV 25,87	NOV 24,87	800	800	2400	600	1	11.0	2	61490	2	1	104		J
NOV 26,87	NOV 25,87	800	800	800	1900	1	38.0	2	61491	2	1	90		JH
NOV 28,87	NOV 27,87	800	1700	****	****	1	1.6	2	61492	2	1	67		
NOV 29,87	NOV 28,87	1700	800	1500	600	1	****	2	61493	2	1	****		J
NOV 30,87	NOV 29,87	800	800	****	****	1	2.4	2	61494	2	1	117		J

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HELBOURNE/DAILY/AEROCHEM #01 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
SEP 13,87	SEP 12,87	928.0		66.0		3.71		3.84		******		0.1760		7.10		0.78	
SEP 17,87	SEP 16,87	250.0		37.5		3.98		4.14		******		0.0959		3.50		0.52	
SEP 18,87	SEP 17,87	1132.0		37.5		******		4.13		******		0.1000		3.20		0.52	
SEP 20,87	SEP 18,87	574.0		18.0		******		4.41		******		0.0578		1.45		0.32	
SEP 21,87	SEP 20,87	868.0		40.0		******		4.22		******		0.1020		3.70		0.86	
SEP 22,87	SEP 21,87	479.0		15.0		******		5.03		******		0.0309		1.85		0.56	
SEP 23,87	SEP 22,87	******		******		******		******		******		******		******		******	
SEP 30,87	SEP 29,87	255.0		70.0		3.98		3.94		******		0.1560		8.90		0.93	
OCT 1,87	SEP 30,87	162.0	LG	4.0	UG	5.32		5.60		******		0.0195	B	0.80	LG	0.07	
OCT 2,87	OCT 1,87	86.0		44.0		******	UG	7.18		******		0.0175	D	7.90		1.26	
OCT 3,87	OCT 2,87	253.0	D	8.0	UG	5.24		5.43		******	D	0.0226	D	1.75		0.21	
OCT 5,87	OCT 4,87	72.0		33.0		******		4.46		******		0.0631		4.05		1.15	
OCT 7,87	OCT 6,87	40.0		17.0		******		5.17		******		0.0301		4.05		0.51	
OCT 8,87	OCT 7,87	179.0		11.0		******		5.40		******		0.0305	D	2.90		0.26	
OCT 11,87	OCT 10,87	589.0	LG	3.5		******		5.64		******		0.0190		0.90		0.20	
OCT 17,87	OCT 16,87	311.0		19.0		******		4.40		******		0.0630		2.50		0.33	
OCT 21,87	OCT 20,87	156.0	D	59.0		******	D	3.93		******	D	0.1520	D	5.45		1.98	
OCT 22,87	OCT 21,87	64.0	D	29.0		******	D	4.21		******	D	0.0887		2.20		1.03	
OCT 23,87	OCT 22,87	641.0		17.0		******	D	4.49		******	D	0.0559		2.00		0.57	
OCT 24,87	OCT 23,87	45.0		68.0		******		4.09		******		0.1290		9.50		2.39	
OCT 25,87	OCT 24,87	881.0		18.0		******		4.40		******		0.0642		1.90		0.31	
OCT 27,87	OCT 26,87	885.0		28.0		******		4.20		******		0.0944		2.00		0.59	
OCT 28,87	OCT 27,87	146.0		20.0		4.33		4.38		******		0.0660		1.85		0.37	
NOV 1,87	OCT 31,87	245.0		60.0		3.91		3.91		******		0.1640		4.80		1.63	
NOV 3,87	NOV 2,87	34.0	B	94.0		******		3.70		******		0.2530	UG	11.70		1.31	
NOV 4,87	NOV 3,87	95.0		34.0		******		4.16		******		0.1000		4.30		0.48	
NOV 5,87	NOV 4,87	22.0		12.0		******		5.07		******		0.0301		2.00		0.54	
NOV 6,87	NOV 5,87	67.0	D	9.0		******		6.43		******		0.0164	D	2.10		0.19	
NOV 8,87	NOV 7,87	225.0	D	38.0		4.07		4.15		******	D	0.1070	D	4.60		0.79	
NOV 9,87	NOV 8,87	199.0	D	42.0		3.97		4.05		******	D	0.1300		4.45		0.80	
NOV 14,87	NOV 13,87	39.0		28.0		******		5.05		******		0.0378		5.70		0.89	
NOV 18,87	NOV 17,87	106.0		22.0		3.95		4.48		******		0.0632		3.75		0.51	
NOV 19,87	NOV 18,87	11.0		7.0		******	B	6.61		******		0.0207		1.30		0.27	
NOV 21,87	NOV 20,87	427.0	<T	1.0	UG	5.30		6.33		******		0.0168	LG	0.40	<T	0.02	
NOV 22,87	NOV 21,87	536.0	LG	2.0		4.98		6.12		******		0.0201		0.60	<T	0.04	
NOV 25,87	NOV 24,87	735.0		19.0		3.61		4.33		******		0.0640		1.60		0.33	
NOV 26,87	NOV 25,87	2202.0		16.0	D	3.63	D	4.38		******		0.0585		1.45		0.21	
NOV 28,87	NOV 27,87	69.0		49.0		******		3.89		******		0.1470		4.30		0.71	
NOV 29,87	NOV 28,87	596.0		12.0		3.68		4.52		******		0.0475		0.80		0.24	
NOV 30,87	NOV 29,87	180.0		42.0		3.54		3.97		******		0.1350		2.85		0.74	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM 801 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIUM MG/L		POTASSIUM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
SEP 13,87	SEP 12,87	0.12		0.14	<T	0.015		0.030	<T	0.015		0.690		0.1445
SEP 17,87	SEP 16,87	0.22		0.18		0.045		0.045		0.040		0.290		0.0724
SEP 18,87	SEP 17,87	<T 0.08		0.10	<T	0.010	<T	0.005	<T	0.015		0.415		0.0741
SEP 20,87	SEP 18,87	<W 0.02	<W	0.01	<W	0.005	<W	0.005	<W	0.005	LG	0.100		0.0389
SEP 21,87	SEP 20,87	0.38	D	0.47		0.065		0.050	<T	0.010		0.800		0.0603
SEP 22,87	SEP 21,87	0.38		0.09		0.075	<T	0.020	<W	0.005		0.620		0.0093
SEP 23,87	SEP 22,87	******		******		******		******		******		******		******
SEP 30,87	SEP 29,87	1.12		0.40		0.170		0.140		0.095		0.820		0.1148
OCT 1,87	SEP 30,87	<T 0.10	<T	0.05	<T	0.015		0.045	<T	0.015		0.160		0.0025
OCT 2,87	OCT 1,87	3.20	D	0.53	D	0.425		0.260	UG	0.390		1.400	UG	0.0001
OCT 3,87	OCT 2,87	0.42		0.15		0.085		0.050		0.025		0.340		0.0037
OCT 5,87	OCT 4,87	1.56		0.20		0.270		0.135		0.095		0.540		0.0347
OCT 7,87	OCT 6,87	!IS ******		0.25	!IS	******	!IS	******	!IS	******		0.850		0.0068
OCT 8,87	OCT 7,87	0.16		0.29		0.030		0.060		0.035		0.785		0.0040
OCT 11,87	OCT 10,87	0.12	<T	0.01	<T	0.020	<T	0.015	<T	0.020		0.185		0.0023
OCT 17,87	OCT 16,87	0.12		0.14	<T	0.025		0.025		0.025		0.300		0.0398
OCT 21,87	OCT 20,87	0.78		0.58		0.125		0.080		0.040	D	1.150	D	0.1175
OCT 22,87	OCT 21,87	0.26		0.36		0.050	D	0.050		0.025		0.515	D	0.0617
OCT 23,87	OCT 22,87	0.22		0.13		0.030	<T	0.015	<T	0.015		0.440	D	0.0324
OCT 24,87	OCT 23,87	!IS ******	UG	0.93	!IS	******	!IS	******	!IS	******		1.150		0.0813
OCT 25,87	OCT 24,87	0.12		0.13	<T	0.020		0.030	<T	0.020	D	0.185		0.0398
OCT 27,87	OCT 26,87	<T 0.08		0.16	<T	0.020	<T	0.015	<T	0.020		0.230		0.0631
OCT 28,87	OCT 27,87	<T 0.08		0.10	<T	0.020		0.025	<T	0.020	D	0.185		0.0417
NOV 1,87	OCT 31,87	0.64	UG	0.92		0.095		0.065		0.140		0.645		0.1230
NOV 3,87	NOV 2,87	0.86		0.63		0.120		0.055		0.270		1.050		0.1995
NOV 4,87	NOV 3,87	0.26		0.30		0.050	<T	0.025		0.110		0.440		0.0692
NOV 5,87	NOV 4,87	0.38		0.20		0.065	!IS	******	!IS	******		0.735		0.0085
NOV 6,87	NOV 5,87	D 0.58	D	0.73	D	0.145	B	1.300		0.050	B	0.020		0.0004
NOV 8,87	NOV 7,87	0.90		0.52		0.120	D	0.085	D	0.130	D	0.420		0.0708
NOV 9,87	NOV 8,87	0.50		0.37		0.065		0.090		0.100		0.390		0.0891
NOV 14,87	NOV 13,87	1.82		0.39		0.315		0.135		0.085		0.850		0.0089
NOV 18,87	NOV 17,87	0.60	D	0.48		0.110	D	0.115	D	0.205		0.315		0.0331
NOV 19,87	NOV 18,87	0.26		0.21		0.055	D	0.085		0.045		0.515	B	0.0002
NOV 21,87	NOV 20,87	0.18		0.21		0.035		0.035		0.100	<T	0.020		0.0005
NOV 22,87	NOV 21,87	0.18		0.21		0.040		0.085		0.100		0.070		0.0008
NOV 25,87	NOV 24,87	0.16		0.09		0.025	<T	0.015		0.035		0.115		0.0468
NOV 26,87	NOV 25,87	<T 0.04		0.05	<T	0.005	<T	0.015	<T	0.015		0.170	D	0.0417
NOV 28,87	NOV 27,87	0.34		0.41		0.070	<T	0.015		0.125		0.105		0.1288
NOV 29,87	NOV 28,87	<T 0.04	<T	0.03	<T	0.005	<W	0.005	<T	0.005	LG	0.050		0.0302
NOV 30,87	NOV 29,87	0.12		0.43	<T	0.020		0.085		0.100		0.140		0.1072

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM 801 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 1,87	NOV 30,87	800	800	100	800	3	0.4	2	61495	2	1	156		N
DEC 2,87	DEC 1,87	800	800	2200	500	2	2.4	2	61496	2	1	57		H
DEC 3,87	DEC 2,87	800	800	****	****	2	0.8	2	61497	2	1	58		
DEC 4,87	DEC 3,87	800	800	1200	2000	2	5.4	2	61498	2	1	75		J
DEC 5,87	DEC 4,87	800	800	200	800	2	5.4	2	61499	2	1	72		JC
DEC 6,87	DEC 5,87	800	800	****	****	1	0.8	2	61500	2	1	****	E	N
DEC 9,87	DEC 8,87	800	800	500	800	1	4.0	2	61501	2	1	116		
DEC 10,87	DEC 9,87	800	800	800	1000	1	4.4	2	61502	2	1	108		
DEC 12,87	DEC 11,87	800	800	1900	200	1	7.6	2	61503	2	1	89		
DEC 15,87	DEC 14,87	800	800	200	800	3	11.8	2	61504	2	1	77		
DEC 16,87	DEC 15,87	800	800	****	****	3	5.2	2	61505	2	1	172		N
DEC 20,87	DEC 19,87	800	1000	1630	500	1	15.8	2	61506	2	1	102		
DEC 25,87	DEC 24,87	800	1100	1200	2200	1	7.8	2	61507	2	1	86		
DEC 30,87	DEC 29,87	800	800	****	****	2	0.8	2	61508	2	1	44		N
DEC 31,87	DEC 30,87	800	800	500	800	3	0.2	2	61509	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM 801

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
DEC 1,87	NOV 30,87	40.0		22.8		******		4.45		******		0.0548		2.75		0.55	
DEC 2,87	DEC 1,87	89.0		6.0		******		5.36		******	D	0.0246		1.05		0.19	
DEC 3,87	DEC 2,87	30.0		11.0		******		4.64		******		0.0422	LQ	0.40		0.50	
DEC 4,87	DEC 3,87	263.0		31.0	LQ	3.49		4.13		******		0.0957		1.90		0.90	
DEC 5,87	DEC 4,87	252.0	LQ	1.0		4.52		5.88		******		0.0165	LQ	0.25	<T	0.01	
DEC 6,87	DEC 5,87	******		******		******		******		******		******		******		******	
DEC 9,87	DEC 8,87	298.0		58.0		3.58		3.94		******		0.1430		4.95		0.76	
DEC 10,87	DEC 9,87	305.0		24.0		3.92		4.29		******		0.0722	D	2.15		0.36	
DEC 12,87	DEC 11,87	438.0		32.0		3.87		4.16		******		0.0906		1.85		0.78	
DEC 15,87	DEC 14,87	587.0		17.0		4.12		4.44		******		0.0543		1.85		0.15	
DEC 16,87	DEC 15,87	574.0		20.0		4.43		4.37		******		0.0634		2.10		0.19	
DEC 20,87	DEC 19,87	1036.0		30.0		4.25		4.16		******		0.0889		2.15		0.49	
DEC 25,87	DEC 24,87	431.0		25.0		4.29		4.24		******		0.0790		1.95		0.41	
DEC 30,87	DEC 29,87	23.0	LQ	5.0		******	UQ	7.11		******		0.0156	LQ	0.45	LQ	0.07	
DEC 31,87	DEC 30,87	******		******		******		******		******		******		******		******	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HELBOURNE/DAILY/AEROCHEM 801

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
DEC 1,87	NOV 30,87	!IS ######		0.30		!IS ######		!IS ######		!IS ######		0.960	D	0.0355	
DEC 2,87	DEC 1,87	<T 0.06		<T 0.01		<T 0.010		<W 0.005		<T 0.015		0.425		0.0044	
DEC 3,87	DEC 2,87	!IS ######		0.12		!IS ######		!IS ######		!IS ######		0.215		0.0229	
DEC 4,87	DEC 3,87	0.14		0.24		0.025		<T 0.005		0.050		0.445		0.0741	
DEC 5,87	DEC 4,87	<T 0.02		<T 0.01		<W 0.005		<W 0.005		<T 0.020		0.080		0.0013	
DEC 6,87	DEC 5,87	######		######		######		######		######		######		######	
DEC 9,87	DEC 8,87	0.32		1.06		0.080		0.095		0.530		0.315		0.1148	
DEC 10,87	DEC 9,87	<T 0.08		0.17		<T 0.015		0.040		0.090		0.255		0.0513	
DEC 12,87	DEC 11,87	0.18		0.15		0.025		<T 0.025		0.025		0.235		0.0692	
DEC 15,87	DEC 14,87	<T 0.06		0.09		<T 0.010		0.025		0.030		0.115		0.0363	
DEC 16,87	DEC 15,87	<T 0.04		0.12		<T 0.010		<T 0.010		0.035		0.140		0.0427	
DEC 20,87	DEC 19,87	<W 0.02		0.10		<T 0.005		<T 0.015		0.035		0.225		0.0692	
DEC 25,87	DEC 24,87	<T 0.02		0.15		<W 0.005		<T 0.010		D 0.035		0.225		0.0575	
DEC 30,87	DEC 29,87	!IS ######		0.13		!IS ######		!IS ######		!IS ######		0.225	UQ	0.0001	
DEC 31,87	DEC 30,87	######		######		######		######		######		######		######	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,87	JAN 1,87	800	800	2400	800	2	1.8	2	63637	2	1	18		N
JAN 3,87	JAN 2,87	800	800	800	200	2	4.0	2	63639	2	1	34		NHM
JAN 7,87	JAN 6,87	800	800	2200	100	3	1.3	2	63640	2	1	108		
JAN 8,87	JAN 7,87	800	800	1000	2400	2	0.3	2	63641	2	1	20	E	N
JAN 10,87	JAN 9,87	800	800	2400	2400	2	13.0	2	63642	2	1	85		M
JAN 12,87	JAN 11,87	800	800	****	****	2	2.0	2	63643	2	1	46		N
JAN 13,87	JAN 12,87	800	800	900	1200	2	1.1	2	63644	2	1	48		NH
JAN 15,87	JAN 14,87	800	800	1900	2400	1	2.0	2	63645	2	1	145		NTHM
JAN 17,87	JAN 16,87	800	800	900	1500	2	0.1	2	63646	2	1	31	E	N
JAN 18,87	JAN 17,87	800	900	2300	900	2	7.8	2	63647	2	1	81		
JAN 19,87	JAN 18,87	900	800	900	1300	2	1.3	2	63648	2	1	62	D	M
JAN 20,87	JAN 19,87	800	800	1300	2000	2	10.9	2	63649	2	1	47		NC
JAN 21,87	JAN 20,87	800	800	1600	800	2	1.5	2	63650	2	1	42		N
JAN 22,87	JAN 21,87	800	800	800	1500	2	0.4	2	63651	2	1	31		N
JAN 23,87	JAN 22,87	800	800	2000	800	2	1.6	1	63652	2	1	48		NH
JAN 24,87	JAN 23,87	800	800	800	2400	2	4.9	2	63653	2	1	45		NHCM
JAN 25,87	JAN 24,87	800	800	900	1800	2	0.9	2	63654	2	1	22		NHCM
JAN 28,87	JAN 27,87	800	800	2200	2400	2	0.1	2	63655	2	1	31	E	N
JAN 29,87	JAN 28,87	800	800	1600	2400	2	1.5	2	63656	2	1	73		
JAN 30,87	JAN 29,87	800	800	2100	800	3	7.2	2	63657	2	1	81		
JAN 31,87	JAN 30,87	800	900	800	900	3	8.2	2	63658	2	1	71		
FEB 3,87	FEB 2,87	900	800	2100	2400	2	2.1	2	63659	2	1	58		
FEB 4,87	FEB 3,87	800	800	1000	1100	2	0.3	2	63660	2	1	57		
FEB 5,87	FEB 4,87	800	800	800	2400	2	3.1	2	63661	2	1	72		
FEB 9,87	FEB 8,87	800	800	800	1000	2	4.4	2	63662	2	1	57		M
FEB 13,87	FEB 12,87	800	800	1200	2400	2	1.0	2	63663	2	1	46		NH
MAR 1,87	FEB 28,87	800	1200	****	1200	1	13.6	2	63664	2	1	99		
MAR 2,87	MAR 1,87	1200	800	1200	800	3	6.1	2	63665	2	1	95		
MAR 3,87	MAR 2,87	800	800	800	1700	2	1.9	2	63666	2	1	38		N
MAR 4,87	MAR 3,87	800	800	****	100	2	0.6	2	63667	2	1	54		C
MAR 13,87	MAR 12,87	800	800	300	600	2	0.1	2	63669	2	1	****	E	N
MAR 25,87	MAR 24,87	800	800	2400	2400	1	1.5	2	63671	2	1	111		J
MAR 26,87	MAR 25,87	800	800	1700	2400	1	4.6	2	63672	2	1	118		
MAR 27,87	MAR 26,87	800	800	900	1100	1	1.1	2	63673	2	1	120		N
MAR 28,87	MAR 27,87	800	800	****	****	1	****	2	63674	2	1	****	E	
MAR 30,87	MAR 29,87	800	800	2200	800	1	15.2	2	63675	2	1	117		
MAR 31,87	MAR 30,87	800	800	800	1000	3	20.2	2	63678	2	1	40		NC
APR 1,87	MAR 31,87	800	800	900	2400	2	0.3	2	63679	2	1	20	E	N
APR 2,87	APR 1,87	800	800	1200	2900	2	7.3	3	63680	2	1	48		N
APR 4,87	APR 3,87	800	800	****	****	2	1.4	2	63681	2	1	22		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM 803 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
JAN 2,87	JAN 1,87	21.0		17.5		******		4.78		******		0.0440		1.55		0.59	
JAN 3,87	JAN 2,87	89.0		9.6		******		4.83		******		0.0357	LG	0.40		0.26	
JAN 7,87	JAN 6,87	90.0		82.0		******		3.95		******		0.1650		4.95		2.13	
JAN 8,87	JAN 7,87	4.0		******		******		******		******		******		******		******	
JAN 10,87	JAN 9,87	711.0		21.1		4.45		4.30		******		0.0558		1.10		0.47	
JAN 12,87	JAN 11,87	60.0		34.1		******		4.15		******		0.0805		2.40		0.81	
JAN 13,87	JAN 12,87	34.0		8.7		******		5.19		******		0.0238		1.30		0.24	
JAN 15,87	JAN 14,87	187.0		52.2		3.99		3.86		******		0.1280		2.55		1.20	
JAN 17,87	JAN 16,87	2.0		******		******		******		******		******		******		******	
JAN 18,87	JAN 17,87	406.0		20.0		4.39		4.36		******		0.0517		1.10		0.46	
JAN 19,87	JAN 18,87	52.0		13.0		******		5.10		******		0.0281		0.80		0.64	
JAN 20,87	JAN 19,87	334.0	LG	2.5	UG	5.54		5.79		******		0.0160	<T	0.10	<T	0.04	
JAN 21,87	JAN 20,87	41.0		39.6		******		4.22		******		0.0777		1.95		1.51	
JAN 22,87	JAN 21,87	8.0		8.3		******		5.34		******		0.0208	LG	0.35		0.33	
JAN 23,87	JAN 22,87	50.0		21.3		******		5.70		******		0.0232		1.70		1.01	
JAN 24,87	JAN 23,87	142.0		23.0	UG	6.90	UG	7.17		******		0.0143		0.55		0.35	
JAN 25,87	JAN 24,87	13.0		16.6		******	UG	7.04		******		0.0147	LG	0.50		0.18	
JAN 28,87	JAN 27,87	2.0		******		******		******		******		******		******		******	
JAN 29,87	JAN 28,87	71.0		25.9		******	D	4.49		******		0.0603		2.50		0.69	
JAN 30,87	JAN 29,87	375.0		27.7		******		4.28		******		0.0748		1.50		0.69	
JAN 31,87	JAN 30,87	376.0		32.0		******		4.18		******		0.0918		1.65		0.72	
FEB 3,87	FEB 2,87	79.0		17.7		******		4.75		******	D	0.0419		1.45		0.66	
FEB 4,87	FEB 3,87	11.0		10.6		******		5.13		******		0.0293		0.85		0.35	
FEB 5,87	FEB 4,87	144.0		17.9		4.66		4.78		******		0.0402		1.85		0.53	
FEB 9,87	FEB 8,87	162.0		18.6	UG	5.60		6.04		******		0.0238		2.10		0.86	
FEB 13,87	FEB 12,87	30.0		27.6		******		5.00		******		0.0393		2.70		1.30	
MAR 1,87	FEB 28,87	866.0		27.7		4.22		4.33		******		0.0753		2.05		0.44	
MAR 2,87	MAR 1,87	373.0		21.7		4.37		4.49		******		0.0578		1.30		0.43	
MAR 3,87	MAR 2,87	47.0		7.6		******		6.43		******		0.0167		0.95		0.25	
MAR 4,87	MAR 3,87	21.0		8.7		******	UG	7.08		******		0.0152		0.55	LG	0.08	
MAR 13,87	MAR 12,87	******		******		******		******		******		******		******		******	
MAR 25,87	MAR 24,87	107.0		24.7	UG	5.47	UG	6.67		******		0.0169		4.55		0.89	
MAR 26,87	MAR 25,87	349.0		36.7		4.15		4.23		******		0.0897		3.40		0.99	
MAR 27,87	MAR 26,87	85.0		29.6		******		4.55		******		0.0623		3.60		0.86	
MAR 28,87	MAR 27,87	4.0		******		******		******		******		******		******		******	
MAR 30,87	MAR 29,87	1141.0		22.1		4.31		4.43		******		0.0603		2.10		0.34	
MAR 31,87	MAR 30,87	530.0		13.6		4.72		4.97		******		0.0260		1.00		0.12	
APR 1,87	MAR 31,87	4.0		******		******		******		******		******		******		******	
APR 2,87	APR 1,87	226.0		27.2		4.26		4.33		******		0.0699		1.80		0.69	
APR 4,87	APR 3,87	20.0		20.7		******		4.61		******		0.0481		2.00		0.45	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIN MG/L	POTASSIN MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,87	JAN 1,87	!IS ######	0.28	!IS ######	!IS ######	!IS ######	0.280	0.0166
JAN 3,87	JAN 2,87	0.22	0.08	<T 0.015	<W 0.005	0.030	0.100	0.0148
JAN 7,87	JAN 6,87	0.66	0.43	0.105	0.060	0.155	1.700	0.1122
JAN 8,87	JAN 7,87	######	######	######	######	######	######	######
JAN 10,87	JAN 9,87	0.12	0.20	0.025	0.025	0.050	0.190	0.0501
JAN 12,87	JAN 11,87	0.14	0.27	<T 0.020	0.050	0.085	0.730	0.0708
JAN 13,87	JAN 12,87	0.24	0.10	0.040	0.030	0.065	0.380	0.0065
JAN 15,87	JAN 14,87	0.18	0.25	<T 0.020	0.030	0.045	0.520	0.1380
JAN 17,87	JAN 16,87	######	######	######	######	######	######	######
JAN 18,87	JAN 17,87	0.26	0.25	0.075	<T 0.015	0.090	0.065	0.0437
JAN 19,87	JAN 18,87	0.44	0.17	0.080	<T 0.010	0.725	0.080	0.0079
JAN 20,87	JAN 19,87	<T 0.04	<T 0.01	<T 0.010	<W 0.005	<T 0.010	LB 0.045	0.0016
JAN 21,87	JAN 20,87	1.02	1.04	0.240	0.050	0.540	0.530	0.0603
JAN 22,87	JAN 21,87	0.46	0.40	0.085	<T 0.015	0.120	<T 0.020	0.0046
JAN 23,87	JAN 22,87	1.40	0.91	0.230	0.050	0.460	0.450	0.0020
JAN 24,87	JAN 23,87	2.54	0.93	UQ 0.695	0.060	0.255	LB 0.030	UQ 0.0001
JAN 25,87	JAN 24,87	2.24	0.59	0.560	0.040	0.220	<T 0.015	UQ 0.0001
JAN 28,87	JAN 27,87	######	######	######	######	######	######	######
JAN 29,87	JAN 28,87	0.32	0.29	0.055	0.040	0.135	0.815	D 0.0324
JAN 30,87	JAN 29,87	0.38	0.28	0.065	0.105	0.105	0.120	0.0525
JAN 31,87	JAN 30,87	<T 0.06	0.16	<T 0.010	<T 0.010	0.030	0.290	0.0661
FEB 3,87	FEB 2,87	0.40	0.22	0.045	<T 0.015	0.105	D 0.495	0.0178
FEB 4,87	FEB 3,87	0.22	0.19	0.040	0.045	0.110	0.275	0.0074
FEB 5,87	FEB 4,87	0.14	0.19	0.040	<T 0.015	0.065	0.790	0.0166
FEB 9,87	FEB 8,87	0.56	0.36	0.135	0.035	0.145	1.150	0.0009
FEB 13,87	FEB 12,87	1.30	1.25	0.295	0.040	0.540	0.950	0.0100
MAR 1,87	FEB 28,87	<T 0.08	0.09	<T 0.025	<T 0.015	0.030	0.205	0.0468
MAR 2,87	MAR 1,87	<T 0.02	0.27	<T 0.010	0.055	D 0.135	0.260	0.0324
MAR 3,87	MAR 2,87	0.34	0.09	0.070	<T 0.020	0.065	0.390	0.0004
MAR 4,87	MAR 3,87	0.92	0.12	0.260	<T 0.025	0.095	0.170	UQ 0.0001
MAR 13,87	MAR 12,87	######	######	######	######	######	######	######
MAR 25,87	MAR 24,87	1.96	0.49	0.580	0.040	0.205	0.425	UQ 0.0002
MAR 26,87	MAR 25,87	0.62	0.24	0.110	0.040	0.065	0.780	0.0589
MAR 27,87	MAR 26,87	0.42	0.38	0.045	0.040	0.045	1.300	0.0282
MAR 28,87	MAR 27,87	######	######	######	######	######	######	######
MAR 30,87	MAR 29,87	0.14	0.09	0.030	0.025	<T 0.025	0.310	0.0372
MAR 31,87	MAR 30,87	<T 0.08	0.07	<T 0.025	0.035	0.045	0.105	0.0107
APR 1,87	MAR 31,87	######	######	######	######	######	######	######
APR 2,87	APR 1,87	0.16	0.16	0.030	<T 0.025	0.055	0.385	0.0468
APR 4,87	APR 3,87	0.48	0.25	0.070	0.030	0.075	!IS ######	0.0245

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 5,87	APR 4,87	800	800	1100	800	3	1.9	2	63682	2	1	94		J
APR 6,87	APR 5,87	800	800	800	2400	1	5.7	2	63683	2	1	120		NH
APR 7,87	APR 6,87	800	800	1700	2300	1	0.1	2	63684	2	1	46	E	N
APR 12,87	APR 11,87	800	800	2400	800	1	1.6	1	63685	2	1	115		
APR 13,87	APR 12,87	800	800	800	2400	1	14.3	1	63686	2	1	103	Q	HN
APR 15,87	APR 14,87	800	800	1500	2400	1	1.4	1	63687	2	1	134		N
APR 16,87	APR 15,87	800	800	****	****	1	0.1	1	63688	2	1	46	E	N
APR 23,87	APR 22,87	800	730	2400	730	1	1.4	1	63689	2	1	74	CDQ	
APR 24,87	APR 23,87	730	800	730	1200	1	1.2	1	63690	2	1	75	D	C
APR 28,87	APR 24,87	800	800	1500	300	1	7.0	1	63691	2	1	13	CQ	NY4
MAY 11,87	MAY 10,87	800	800	2200	300	1	2.4	1	63692	2	1	****	ABCQEJ	
MAY 12,87	MAY 11,87	800	800	****	****	1	0.2	1	63693	2	1	****	EJ	
MAY 15,87	MAY 14,87	800	800	1700	2100	1	23.2	1	63694	2	1	94		
MAY 18,87	MAY 17,87	800	800	****	****	1	8.0	1	63695	2	1	98		
MAY 19,87	MAY 18,87	800	800	800	1200	1	2.2	1	63696	2	1	82		
MAY 20,87	MAY 19,87	800	800	2400	300	1	2.2	1	63697	2	1	95		
MAY 21,87	MAY 20,87	800	800	900	1000	1	0.7	1	63698	2	1	35		N
MAY 22,87	MAY 21,87	800	800	2400	200	1	0.6	1	63699	2	1	62		
MAY 27,87	MAY 26,87	800	800	800	1000	1	3.0	1	63700	2	1	84		
MAY 31,87	MAY 30,87	800	800	2200	100	1	9.0	1	63701	2	1	98		
JUN 2,87	JUN 1,87	800	800	1400	1600	1	6.8	1	63702	2	1	93		
JUN 3,87	JUN 2,87	800	800	****	****	1	0.6	1	63703	2	1	36		NH
JUN 8,87	JUN 7,87	800	800	900	1000	1	5.8	1	63704	2	1	90		
JUN 9,87	JUN 8,87	800	800	830	1200	1	1.2	1	63705	2	1	80		
JUN 12,87	JUN 11,87	800	800	2000	700	1	10.2	1	63706	2	1	99		
JUN 22,87	JUN 21,87	800	700	2400	630	1	16.9	1	63707	2	1	102		
JUN 23,87	JUN 22,87	700	800	800	1700	1	5.1	1	63710	2	1	86	A	
JUN 26,87	JUN 25,87	700	800	200	300	1	1.2	1	63711	2	1	75		HCN
JUN 28,87	JUN 27,87	800	800	200	300	1	1.0	1	63712	2	1	46		NCN
JUL 4,87	JUL 3,87	800	800	1400	1500	1	14.2	1	63713	2	1	48		NH
JUL 7,87	JUL 6,87	800	800	1900	2000	1	5.1	1	63714	2	1	90		
JUL 8,87	JUL 7,87	800	800	2200	2400	1	38.4	1	63715	2	1	99		
JUL 9,87	JUL 8,87	800	800	1500	1700	1	15.9	1	63718	2	1	68		
JUL 11,87	JUL 10,87	800	800	1400	1500	1	13.0	1	63719	2	1	98		
JUL 14,87	JUL 13,87	800	700	2100	100	1	17.2	1	63720	2	1	97		
JUL 20,87	JUL 19,87	800	800	2200	2300	1	13.2	1	63721	2	1	99		
JUL 21,87	JUL 20,87	800	800	2200	2300	1	2.2	1	63722	2	1	89		
JUL 25,87	JUL 24,87	800	800	1900	2400	1	22.7	1	63723	2	1	97		
AUG 3,87	AUG 2,87	700	800	700	1600	1	31.2	1	63726	2	1	102		J
AUG 8,87	AUG 7,87	800	800	1600	1700	1	4.1	1	63727	2	1	82		H

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM 803

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
APR 5,87	APR 4,87	115.0		14.8	B	5.54	D	6.53		******		0.0164		2.90		0.31	
APR 6,87	APR 5,87	440.0		22.8		4.34		4.54		******		0.0558		3.30		0.24	
APR 7,87	APR 6,87	3.0		******		******		******		******		******		******		******	
APR 12,87	APR 11,87	118.0	D	35.0		******	UG	7.61		******		0.0106		3.70		0.97	
APR 13,87	APR 12,87	947.0		13.0		******		4.85		******		0.0416		2.25		0.41	
APR 15,87	APR 14,87	121.0		66.0		******		3.95		******		0.1550	UG	9.65		1.32	
APR 16,87	APR 15,87	3.0		******		******		******		******		******		******		******	
APR 23,87	APR 22,87	67.0	>	100.0		******		3.50		******	UG	0.4110	UG	24.00	UG	4.00	
APR 24,87	APR 23,87	58.0	>	100.0		******		3.49		******	UG	0.4240	UG	17.00	UG	3.85	
APR 28,87	APR 24,87	62.0		41.0		******	UG	7.76		******	LG	0.0086		3.70		0.67	
MAY 11,87	MAY 10,87	******		******		******		******		******		******		******		******	
MAY 12,87	MAY 11,87	******		******		******		******		******		******		******		******	
MAY 15,87	MAY 14,87	1412.0		35.8		4.15		4.49		******		0.0732		5.60		0.76	
MAY 18,87	MAY 17,87	507.0		52.1		3.83		4.05		******		0.1250		6.45		0.65	
MAY 19,87	MAY 18,87	117.0		27.9	D	4.05		4.38		******		0.0690		3.15		0.42	
MAY 20,87	MAY 19,87	135.0		64.4		3.78		3.89		******		0.1550		6.95		0.81	
MAY 21,87	MAY 20,87	16.0	>	100.0		******		3.61		******		0.2820		8.40		1.84	
MAY 22,87	MAY 21,87	24.0		84.3		******		3.87		******		0.1700		9.65		1.71	
MAY 27,87	MAY 26,87	163.0		84.8		3.80		3.91		******		0.1610		14.15		1.40	
MAY 31,87	MAY 30,87	566.0		20.9		4.35		4.57		******		0.0482		2.30		0.51	
JUN 2,87	JUN 1,87	407.0		40.9		******		4.36		******		0.0694		5.15		1.14	
JUN 3,87	JUN 2,87	14.0		20.4		******		5.54		******		0.0233		3.35		0.75	
JUN 8,87	JUN 7,87	338.0		25.0	UG	6.17		6.71		******		0.0204		4.05		0.90	
JUN 9,87	JUN 8,87	62.0		28.1		******	UG	6.81		******		0.0209		4.20		0.97	
JUN 12,87	JUN 11,87	650.0		50.1		3.85		3.97		******		0.1240		5.10		0.79	
JUN 22,87	JUN 21,87	1110.0		36.6		4.07		4.17		******		0.0903		4.30		0.55	
JUN 23,87	JUN 22,87	283.0		42.8		4.01		4.05		******		0.1130		4.25		0.65	
JUN 26,87	JUN 25,87	58.0	>	100.0		******		3.41		******		0.4310	UG	17.55	UG	6.15	
JUN 28,87	JUN 27,87	30.0	D	78.4		******	UG	6.82		******	!IS	******		0.95	LG	0.10	
JUL 4,87	JUL 3,87	438.0		28.7		4.25		4.35		******		0.0655		3.90		0.40	
JUL 7,87	JUL 6,87	295.0	D	56.9		3.89		3.94		******	D	0.1380		5.50		1.05	
JUL 8,87	JUL 7,87	2446.0		24.0		4.22		4.35		******		0.0629		2.25		0.50	
JUL 9,87	JUL 8,87	694.0		54.3		3.89		3.94		******		0.1360		5.20		0.90	
JUL 11,87	JUL 10,87	821.0		19.7		4.41		4.46		******		0.0521		2.35		0.35	
JUL 14,87	JUL 13,87	1077.0		15.2		4.43		4.55		******		0.0443		1.70		0.30	
JUL 20,87	JUL 19,87	844.0		27.1		4.24		4.51		******		0.0566		4.80		0.45	
JUL 21,87	JUL 20,87	126.0		31.3		4.12		4.29		******		0.0730	D	3.95		0.65	
JUL 25,87	JUL 24,87	1424.0		63.0		******		3.87		******		0.1670		9.00		0.63	
AUG 3,87	AUG 2,87	2058.0		18.0		4.25	D	4.78		******		0.0399		3.40		0.38	
AUG 8,87	AUG 7,87	217.0		39.0	UG	6.63	B	7.19		******		0.0196		7.40		1.65	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03 PAGE : 6

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
APR 5,87	APR 4,87	D	0.98		0.40	D	0.215		0.035		0.245		0.460	D	0.0003
APR 6,87	APR 5,87		0.30		0.32		0.065		0.030		0.210		0.645		0.0288
APR 7,87	APR 6,87		******		******		******		******		******		******		******
APR 12,87	APR 11,87	B	3.94		0.39	B	0.800		0.080		0.080		0.700	UG	0.0000
APR 13,87	APR 12,87	D	0.96		0.16		0.130		0.075	<T	0.025		0.380		0.0141
APR 15,87	APR 14,87		1.92		0.56		0.445		0.145		0.220		0.850		0.1122
APR 16,87	APR 15,87		******		******		******		******		******		******		******
APR 23,87	APR 22,87	U	7.52	UG	1.65	U	1.590		0.310		0.335	UG	2.450		0.3162
APR 24,87	APR 23,87		1.96		1.22		0.290		0.220		0.390	UG	2.750		0.3236
APR 28,87	APR 24,87	UG	4.14		0.52	UG	0.930		0.215		0.110		1.300	UG	0.0000
MAY 11,87	MAY 10,87		******		******		******		******		******		******		******
MAY 12,87	MAY 11,87		******		******		******		******		******		******		******
MAY 15,87	MAY 14,87		1.12		0.21		0.190		0.035	<T	0.025		0.890		0.0324
MAY 18,87	MAY 17,87		0.48		0.13		0.090		0.030	<T	0.020		0.820		0.0891
MAY 19,87	MAY 18,87	<T	0.08		0.19	<T	0.010		0.070		0.095		0.620		0.0417
MAY 20,87	MAY 19,87		0.52		0.29		0.125		0.030		0.035		0.630		0.1288
MAY 21,87	MAY 20,87		0.28		0.28		0.040		0.035		0.060		0.900		0.2455
MAY 22,87	MAY 21,87		1.44		0.46	D	0.275		0.110		0.115		1.700		0.1349
MAY 27,87	MAY 26,87	D	2.32	D	0.36	D	0.520		0.075		0.085	D	1.250		0.1230
MAY 31,87	MAY 30,87		0.58		0.07		0.105	<T	0.020		0.050		0.255		0.0269
JUN 2,87	JUN 1,87		0.86		0.24		0.140		0.070		0.110		1.400		0.0437
JUN 3,87	JUN 2,87		0.74		0.23		0.105		0.085		0.090		1.150		0.0029
JUN 8,87	JUN 7,87		1.66		0.16		0.310		0.080		0.035		1.100		0.0002
JUN 9,87	JUN 8,87		1.62		0.17		0.245		0.120		0.070		1.550	UG	0.0002
JUN 12,87	JUN 11,87		0.88		0.14		0.140		0.040		0.035		0.410		0.1072
JUN 22,87	JUN 21,87		0.48	D	0.20		0.130		0.030		0.040		0.460		0.0676
JUN 23,87	JUN 22,87	<T	0.08		0.10	<T	0.010	<T	0.020	<T	0.005		0.640		0.0891
JUN 26,87	JUN 25,87	D	1.72		0.60	D	0.405	B	0.485		0.050		1.200		0.3890
JUN 28,87	JUN 27,87		0.42		0.15		0.125		0.050		0.045		0.175	UG	0.0002
JUL 4,87	JUL 3,87		0.66	<T	0.05		0.110		0.035	<T	0.010		0.545		0.0447
JUL 7,87	JUL 6,87		0.76		0.25		0.140		0.040		0.050		0.515		0.1148
JUL 8,87	JUL 7,87		0.22		0.10		0.045	<T	0.020	<T	0.015		0.315		0.0447
JUL 9,87	JUL 8,87		0.34		0.15		0.075	<T	0.015		0.030		0.595		0.1148
JUL 11,87	JUL 10,87		0.22		0.10		0.035	<T	0.020	<T	0.020		0.350		0.0347
JUL 14,87	JUL 13,87		0.18	<T	0.05		0.040	<T	0.020	<T	0.015	D	0.240		0.0282
JUL 20,87	JUL 19,87		0.88		0.15		0.200		0.055		0.045		0.610		0.0309
JUL 21,87	JUL 20,87		0.74		0.20		0.135		0.045		0.065		0.490		0.0513
JUL 25,87	JUL 24,87		0.70		0.39		0.130	<T	0.020		0.025		0.690		0.1349
AUG 3,87	AUG 2,87		0.56	D	0.15		0.085	<T	0.010		0.030		0.605	D	0.0166
AUG 8,87	AUG 7,87		3.58		0.38		0.680		0.105		0.050		1.050	B	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 9,87	AUG 8,87	800 900	200 900	1	23.2	1	63728	2	1		97		
AUG 10,87	AUG 9,87	900 800	900 1800	1	3.1	1	63731	2	1		68		
AUG 18,87	AUG 16,87	800 800	1830 1430	1	1.0	1	63732	2	1		32	Q	NHY2
AUG 19,87	AUG 18,87	800 800	2000 2100	1	1.2	1	63733	2	1		81		
AUG 22,87	AUG 21,87	800 800	100 300	1	4.3	1	63734	2	1		77		JH
AUG 27,87	AUG 26,87	800 800	1600 2400	1	12.0	1	63735	2	1		93		
AUG 29,87	AUG 28,87	800 800	1300 2100	1	2.7	1	63736	2	1		82		J
AUG 31,87	AUG 30,87	800 1800	1800 100	1	1.0	1	63737	2	1		45		N
SEP 1,87	AUG 31,87	1800 800	2100 2200	1	1.1	1	63738	2	1		70		
SEP 2,87	SEP 1,87	800 800	**** 500	1	4.4	1	63739	2	1		86		HM
SEP 12,87	SEP 11,87	800 800	1200 1600	1	23.8	1	63740	2	1		97		
SEP 13,87	SEP 12,87	800 800	1400 1600	1	3.0	1	63743	2	1		91		
SEP 17,87	SEP 16,87	800 800	1800 2300	1	3.9	1	63744	2	1		110		
SEP 18,87	SEP 17,87	800 800	1000 800	1	7.0	1	63745	2	1		96		
SEP 19,87	SEP 18,87	800 800	800 800	1	2.0	1	63746	2	1		79		
SEP 20,87	SEP 19,87	800 800	800 1500	1	0.8	1	63747	2	1		50		
SEP 21,87	SEP 20,87	800 800	200 500	1	5.2	1	63748	2	1		91		
SEP 22,87	SEP 21,87	800 800	1700 1900	1	6.1	1	63749	2	1		96		J
SEP 28,87	SEP 27,87	800 800	1400 1600	1	6.8	1	63750	2	1		69		
SEP 30,87	SEP 29,87	800 800	1400 1700	1	12.7	1	63751	2	1		97		
OCT 1,87	SEP 30,87	800 800	1400 1700	1	1.4	1	63752	2	1		60	A	
OCT 2,87	OCT 1,87	800 800	100 300	1	2.8	1	63753	2	1		83		
OCT 3,87	OCT 2,87	800 800	1400 2100	1	7.4	1	63754	2	1		92		H
OCT 6,87	OCT 5,87	800 800	2300 100	1	1.8	1	63755	2	1		80		H
OCT 7,87	OCT 6,87	800 800	2000 2200	1	0.6	1	63756	2	1		51		N
OCT 8,87	OCT 7,87	800 800	900 2400	1	7.4	1	63757	2	1		125		NHCM
OCT 10,87	OCT 9,87	800 800	**** ****	1	0.6	1	63758	2	1		41		N
OCT 11,87	OCT 10,87	800 800	**** ****	1	****	1	63759	2	1		****		H
OCT 18,87	OCT 17,87	800 1000	1000 1400	1	6.3	1	63760	2	1		91		H
OCT 21,87	OCT 20,87	800 800	1000 2000	1	3.2	1	63761	2	1		81		C
OCT 22,87	OCT 21,87	800 800	900 1400	3	4.4	1	63762	2	1		117		
OCT 23,87	OCT 22,87	800 800	1500 100	3	14.0	1	63763	2	1	U	83	GE	
OCT 25,87	OCT 24,87	800 800	900 100	1	21.2	1	63766	2	1	U	95	GE	
OCT 27,87	OCT 26,87	800 800	2400 800	1	7.2	1	63767	2	1		124		N
OCT 28,87	OCT 27,87	800 800	800 1400	1	11.0	1	63768	2	1		90		
OCT 29,87	OCT 28,87	800 800	**** ****	3	4.0	1	63769	2	1		89	A	HC
OCT 30,87	OCT 29,87	800 800	**** ****	3	0.1	1	63770	2	1		78		XN
NOV 2,87	NOV 1,87	800 800	**** ****	1	1.0	1	63771	2	1		39	A	XN
NOV 3,87	NOV 2,87	800 800	200 700	1	1.2	1	63772	2	1		74		
NOV 5,87	NOV 4,87	800 800	**** ****	1	1.6	1	63773	2	1		65		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 9,87	AUG 8,87	1455.0		24.0		4.06		4.25		******	0.0779		2.95		0.24
AUG 10,87	AUG 9,87	137.0		45.0		3.82		3.99		******	0.1360		5.70		0.47
AUG 18,87	AUG 16,87	21.0		37.0		******		6.42		******	0.0207		9.45		1.41
AUG 19,87	AUG 18,87	63.0		9.5		******	UG	6.81		******	0.0165		1.35		0.40
AUG 22,87	AUG 21,87	214.0		33.5		3.82		4.30		******	0.0803	D	4.80		0.72
AUG 27,87	AUG 26,87	720.0		16.0		4.27		4.59		******	0.0476		1.90		0.30
AUG 29,87	AUG 28,87	142.0		10.5	UG	6.02		6.73		******	0.0157		1.25		0.39
AUG 31,87	AUG 30,87	29.0		45.5		******		4.38		******	0.0772		7.55		1.15
SEP 1,87	AUG 31,87	50.0	IS	******		******		6.41		******	0.0163		1.75		0.17
SEP 2,87	SEP 1,87	245.0	LG	5.0		******		6.26		******	0.0166		0.90	LG	0.13
SEP 12,87	SEP 11,87	1492.0		76.5		3.66		3.75		******	0.2070		8.35		0.72
SEP 13,87	SEP 12,87	175.0		82.0		3.65		3.73		******	0.2150		8.75		1.06
SEP 17,87	SEP 16,87	275.0		53.5		3.95		4.11		******	0.1140		7.40		1.27
SEP 18,87	SEP 17,87	434.0		49.0		3.85		4.00		******	0.1380		4.55		0.83
SEP 19,87	SEP 18,87	102.0		22.0		4.18		4.43		******	0.0619	D	2.25		0.47
SEP 20,87	SEP 19,87	26.0		43.5		******		4.06		******	0.1220		4.10		0.74
SEP 21,87	SEP 20,87	305.0		29.0	D	4.13		4.31		******	0.0796	D	2.95		0.68
SEP 22,87	SEP 21,87	377.0		13.0	B	5.55		6.20		******	0.0197		2.10		0.54
SEP 28,87	SEP 27,87	302.0		61.0		4.00		3.99		******	0.1380		7.15		0.84
SEP 30,87	SEP 29,87	793.0		37.0		4.28		4.35		******	0.0736		5.60		0.48
OCT 1,87	SEP 30,87	54.0	D	10.0		******	UG	6.99		******	0.0177		1.15	LG	0.07
OCT 2,87	OCT 1,87	149.0		24.5	UG	6.39	UG	6.81		******	0.0210		4.80		0.82
OCT 3,87	OCT 2,87	439.0	LG	4.5	UG	5.73		6.25		******	0.0172		0.91	LG	0.10
OCT 6,87	OCT 5,87	93.0		17.5		******		5.19		******	0.0269		2.80		0.76
OCT 7,87	OCT 6,87	20.0		20.0		******	UG	6.81		******	0.0208		3.50		0.52
OCT 8,87	OCT 7,87	594.0	LG	5.0		4.75		4.95		******	0.0268		0.85		0.18
OCT 10,87	OCT 9,87	16.0		16.5		******		5.79		******	0.0214		2.85		0.54
OCT 11,87	OCT 10,87	73.0		6.0		******		5.36		******	0.0233	LG	0.55		0.32
OCT 18,87	OCT 17,87	371.0		22.0		4.14		4.43		******	0.0600		3.10		0.39
OCT 21,87	OCT 20,87	168.0	>	100.0		3.64		3.59		******	0.2870		8.75	UG	3.70
OCT 22,87	OCT 21,87	331.0		13.5		4.63		4.65		******	0.0408		1.15		0.35
OCT 23,87	OCT 22,87	746.0		******		4.68		******		******	******		******		******
OCT 25,87	OCT 24,87	1293.0		******		4.52		******		******	******		******		******
OCT 27,87	OCT 26,87	574.0		24.0		******		4.31		******	0.0840		2.15		0.51
OCT 28,87	OCT 27,87	640.0		14.0		******		4.60		******	0.0520		1.70		0.32
OCT 29,87	OCT 28,87	230.0	LG	5.0		******		6.09		******	0.0172		1.20		0.32
OCT 30,87	OCT 29,87	5.0		******		******		******		******	******		******		******
NOV 2,87	NOV 1,87	25.0		******		******		******		******	******		******		******
NOV 3,87	NOV 2,87	57.0		57.0		******		4.02		******	0.1490		7.60		0.99
NOV 5,87	NOV 4,87	67.0		11.0		******		5.31		******	0.0251		2.50		0.37

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM 803

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
AUG 9,87	AUG 8,87	0.12		0.04	<T	0.020	<T	0.005	<T	0.010		0.195		0.0562
AUG 10,87	AUG 9,87	0.22		0.11		0.060	<T	0.020		0.045		0.350		0.1023
AUG 18,87	AUG 16,87	2.96		0.42		0.600		0.200	UG	0.375		0.775		0.0004
AUG 19,87	AUG 18,87	0.72		0.07		0.120		0.040		0.045		0.430	UG	0.0002
AUG 22,87	AUG 21,87	1.04		0.18		0.145	D	0.090		0.045		0.770		0.0501
AUG 27,87	AUG 26,87	0.22	D	0.08		0.055	<T	0.005	<T	0.015		0.185		0.0257
AUG 29,87	AUG 28,87	0.58		0.12		0.080	<T	0.010	<T	0.025		0.565		0.0002
AUG 31,87	AUG 30,87	!IS ******		0.41	!IS	******	!IS	******	!IS	******		1.250		0.0417
SEP 1,87	AUG 31,87	!IS ******		0.12	!IS	******	!IS	******	!IS	******		0.355		0.0004
SEP 2,87	SEP 1,87	0.16	D	0.50	<T	0.020		0.030		0.030		0.295		0.0005
SEP 12,87	SEP 11,87	0.22		0.18		0.025		0.030	<T	0.015		0.600		0.1778
SEP 13,87	SEP 12,87	0.30		0.20	D	0.035		0.055	<T	0.020		0.805		0.1862
SEP 17,87	SEP 16,87	1.06	D	0.22	D	0.155	D	0.070		0.045		1.450		0.0776
SEP 18,87	SEP 17,87	0.26		0.16		0.030		0.045		0.040		0.450		0.1000
SEP 19,87	SEP 18,87	0.16		0.10	<T	0.015		0.055		0.080		0.380		0.0372
SEP 20,87	SEP 19,87	!IS ******		0.11	!IS	******	!IS	******	!IS	******		0.380		0.0871
SEP 21,87	SEP 20,87	0.30		0.13		0.025		0.055		0.030		0.620		0.0490
SEP 22,87	SEP 21,87	0.38		0.13		0.055	D	0.045	<T	0.020		0.950		0.0006
SEP 28,87	SEP 27,87	0.92		0.38		0.125		0.055	<T	0.010		0.735		0.1023
SEP 30,87	SEP 29,87	0.50		0.12		0.070		0.035	<T	0.025		1.150		0.0447
OCT 1,87	SEP 30,87	D 0.28	D	0.15		0.075	B	0.620	D	0.045		0.650	UG	0.0001
OCT 2,87	OCT 1,87	1.86		0.13		0.245		0.150		0.130		0.950	UG	0.0002
OCT 3,87	OCT 2,87	0.22		0.16		0.045		0.025		0.025		0.225		0.0006
OCT 6,87	OCT 5,87	1.26		0.16		0.200		0.115		0.095		0.465		0.0065
OCT 7,87	OCT 6,87	1.30		0.18		0.235		0.115	UG	0.400	!IS	******	UG	0.0002
OCT 8,87	OCT 7,87	0.18	<T	0.03		0.025	<T	0.020	<T	0.025		0.225		0.0112
OCT 10,87	OCT 9,87	1.20		0.23		0.190		0.120		0.140	!IS	******		0.0016
OCT 11,87	OCT 10,87	0.28		0.19		0.045	<T	0.025		0.075		0.245		0.0044
OCT 18,87	OCT 17,87	0.50		0.09		0.080		0.045		0.050		0.495		0.0372
OCT 21,87	OCT 20,87	1.18		0.63		0.195	D	0.105		0.070		2.100		0.2570
OCT 22,87	OCT 21,87	<T 0.08		0.10		0.025	<T	0.010	<T	0.010	D	0.290		0.0224
OCT 23,87	OCT 22,87	******		******		******		******		******		******		******
OCT 25,87	OCT 24,87	******		******		******		******		******		******		******
OCT 27,87	OCT 26,87	<T 0.10		0.16	<T	0.010	<T	0.015		0.025		0.230		0.0490
OCT 28,87	OCT 27,87	<T 0.08		0.13	<W	0.005		0.030		0.050		0.245		0.0251
OCT 29,87	OCT 28,87	0.22		0.26		0.025		0.090		0.145		0.365		0.0008
OCT 30,87	OCT 29,87	******		******		******		******		******		******		******
NOV 2,87	NOV 1,87	******		******		******		******		******		******		******
NOV 3,87	NOV 2,87	0.88		0.78		0.130		0.180		0.495		0.735		0.0955
NOV 5,87	NOV 4,87	0.40	D	0.34		0.075		0.145	D	0.220		0.570		0.0049

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM 803

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 6,87	NOV 5,87	800	800	****	****	2	3.0	1	63774	2	1	78		HCM
NOV 7,87	NOV 6,87	800	800	****	****	2	1.2	1	63775	2	1	89		C
NOV 8,87	NOV 7,87	800	800	2400	800	1	7.4	1	63776	2	1	116		
NOV 9,87	NOV 8,87	800	800	800	100	1	5.8	1	63777	2	1	126		N
NOV 18,87	NOV 17,87	800	800	900	1600	1	5.4	2	63778	2	1	77		J
NOV 19,87	NOV 18,87	800	800	1000	1700	1	0.8	2	63779	2	1	64		
NOV 20,87	NOV 19,87	800	800	****	****	3	****	2	63780	2	1	****	A	
NOV 21,87	NOV 20,87	800	800	800	2400	2	3.2	2	63781	2	1	****	EG	
NOV 24,87	NOV 23,87	800	800	830	1200	1	0.3	2	63782	2	1	223		N
NOV 25,87	NOV 24,87	800	800	2400	800	3	8.9	2	63797	2	1	87		M
NOV 26,87	NOV 25,87	800	600	800	100	3	38.5	2	63798	2	1	97		JHM
NOV 29,87	NOV 28,87	800	800	****	****	1	8.8	2	63801	2	1	92		J
NOV 30,87	NOV 29,87	800	800	****	****	1	1.2	2	63802	2	1	98		
DEC 1,87	NOV 30,87	800	800	1000	1600	3	2.2	2	63803	2	1	60		
DEC 2,87	DEC 1,87	800	800	1100	800	2	1.5	2	63804	2	1	40		NHCM
DEC 3,87	DEC 2,87	800	800	800	2200	2	1.7	2	63805	2	1	68		H
DEC 4,87	DEC 3,87	800	800	900	2400	2	3.4	2	63806	2	1	43		N
DEC 8,87	DEC 7,87	800	800	100	800	3	1.0	2	63807	2	1	148		N
DEC 9,87	DEC 8,87	800	800	800	100	1	4.0	2	63808	2	1	105		J
DEC 10,87	DEC 9,87	800	800	900	100	1	5.4	2	63809	2	1	116		JHM
DEC 12,87	DEC 11,87	800	800	100	500	1	4.2	2	63810	2	1	102		
DEC 13,87	DEC 12,87	800	800	1800	200	3	5.4	2	63811	2	1	75		
DEC 15,87	DEC 14,87	800	730	2400	730	3	5.8	2	63812	2	1	57		JH
DEC 16,87	DEC 15,87	730	800	730	100	3	36.0	2	63813	2	1	45		N
DEC 17,87	DEC 16,87	800	800	900	2400	2	0.1	2	63816	2	1	****	E	N
DEC 20,87	DEC 19,87	800	1000	1200	1000	3	18.5	2	63817	2	1	89		
DEC 21,87	DEC 20,87	1000	800	1000	1400	1	2.7	2	63818	2	1	138		N
DEC 23,87	DEC 22,87	800	800	1900	2400	2	1.5	2	63819	2	1	46		N
DEC 25,87	DEC 24,87	800	800	2200	100	1	9.5	2	63820	2	1	95		
DEC 29,87	DEC 28,87	800	800	****	****	2	0.4	2	63821	2	1	****	EF	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
NOV 6,87	NOV 5,87	150.0	LQ	2.5	UQ	5.88		6.37		******		0.0185		0.85	LQ	0.10	
NOV 7,87	NOV 6,87	69.0		15.0		******	UQ	7.24		******		0.0150		2.00	LQ	0.08	
NOV 8,87	NOV 7,87	552.0		17.0		4.20		4.38		******		0.0707		2.00		0.36	
NOV 9,87	NOV 8,87	469.0		24.0		4.10		4.27		******		0.0857		2.45		0.55	
NOV 18,87	NOV 17,87	268.0		20.0		3.94	D	4.63		******	D	0.0534		3.10		0.66	
NOV 19,87	NOV 18,87	33.0		10.0		******		5.06		******		0.0316		2.10		0.33	
NOV 20,87	NOV 19,87	56.0		14.0		******	UQ	6.97		******		0.0200		2.10		0.77	
NOV 21,87	NOV 20,87	******		******		******		******		******		******		******		******	
NOV 24,87	NOV 23,87	43.0		19.0		******		4.56		******		0.0559		3.25		0.45	
NOV 25,87	NOV 24,87	501.0	D	11.0	D	4.52		4.58		******		0.0458	D	0.95		0.17	
NOV 26,87	NOV 25,87	2412.0		10.5		3.80		4.53		******		0.0527		0.75		0.11	
NOV 29,87	NOV 28,87	521.0		10.0		3.79		4.64		******		0.0395		1.00		0.16	
NOV 30,87	NOV 29,87	76.0		52.0		******		3.88		******		0.1500		3.55		1.10	
DEC 1,87	NOV 30,87	86.0		28.0		******		4.25		******		0.0835		2.50		0.64	
DEC 2,87	DEC 1,87	39.0	<T	0.5		******		5.56		******		0.0195	LQ	0.25	<T	0.01	
DEC 3,87	DEC 2,87	75.0		6.5		******		5.47		******		0.0240		0.90		0.22	
DEC 4,87	DEC 3,87	94.0		35.0		******		4.11		******		0.1030		2.30		0.91	
DEC 8,87	DEC 7,87	95.0	!NR	******		******	!NR	******		******	!NR	******	!NR	******	!NR	******	
DEC 9,87	DEC 8,87	271.0		41.0	LQ	3.49		4.01		******		0.1210		3.20		0.64	
DEC 10,87	DEC 9,87	403.0		19.0		3.71		4.37		******		0.0635		1.80		0.31	
DEC 12,87	DEC 11,87	277.0		31.5		3.93		4.13		******		0.0906		2.10		0.72	
DEC 13,87	DEC 12,87	261.0		14.0		4.80		5.14		******		0.0313		2.20		0.49	
DEC 15,87	DEC 14,87	214.0	LQ	5.0	B	6.01	UQ	6.89		******		0.0160		0.80		0.19	
DEC 16,87	DEC 15,87	1048.0		11.5		4.35		4.59		******		0.0424		1.60		0.17	
DEC 17,87	DEC 16,87	******		******		******		******		******		******		******		******	
DEC 20,87	DEC 19,87	1061.0		27.0		4.03		4.17		******		0.0858		2.10		0.51	
DEC 21,87	DEC 20,87	239.0		39.0		******	!IS	******		******	!IS	******		3.60		0.77	
DEC 23,87	DEC 22,87	45.0		38.0		******		4.21		******		0.0953		1.65		0.99	
DEC 25,87	DEC 24,87	579.0		26.5		4.39		4.39		******		0.0675		2.00		0.50	
DEC 29,87	DEC 28,87	******		******		******		******		******		******		******		******	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM 803

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
NOV 6,87	NOV 5,87		0.16		0.07		0.045		0.030		0.025		0.225		0.0004
NOV 7,87	NOV 6,87	D	2.12		0.10		0.190		0.075		0.095		0.145	UQ	0.0001
NOV 8,87	NOV 7,87		0.44		0.09		0.040		0.025	<T	0.020		0.175		0.0417
NOV 9,87	NOV 8,87		0.24		0.16		0.030		0.050		0.035		0.340		0.0537
NOV 18,87	NOV 17,87		0.60		0.28		0.090		0.045		0.075		0.735	D	0.0234
NOV 19,87	NOV 18,87		0.26		0.13		0.050		0.035		0.035		0.650		0.0087
NOV 20,87	NOV 19,87		1.48		0.29		0.275		0.070		0.045		0.655	UQ	0.0001
NOV 21,87	NOV 20,87		******		******		******		******		******		******		******
NOV 24,87	NOV 23,87		0.86		0.38		0.145		0.060		0.225		0.365		0.0275
NOV 25,87	NOV 24,87	<T	0.08		0.07	<T	0.015	<W	0.005		0.030		0.110		0.0263
NOV 26,87	NOV 25,87	<T	0.02	<T	0.02	<W	0.005	<W	0.005	<T	0.015	LQ	0.045		0.0295
NOV 29,87	NOV 28,87		0.10	D	0.14		0.025	<T	0.020		0.080		0.085		0.0229
NOV 30,87	NOV 29,87		0.30		0.26		0.035		0.060		0.150		0.365		0.1318
DEC 1,87	NOV 30,87		0.22		0.45		0.035	<T	0.020		0.060		0.585		0.0562
DEC 2,87	DEC 1,87		0.12	<T	0.01	<T	0.010	<T	0.010		0.030	<T	0.010		0.0028
DEC 3,87	DEC 2,87		0.32		0.23		0.055	<T	0.010		0.130		0.250		0.0034
DEC 4,87	DEC 3,87		0.24		0.25		0.040	<T	0.015		0.055		0.500		0.0776
DEC 8,87	DEC 7,87	!NR	******	!NR	******	!NR	******	!NR	******	!NR	******	!NR	******	!NR	******
DEC 9,87	DEC 8,87		0.32		0.60		0.055	<T	0.025		0.295		0.235		0.0977
DEC 10,87	DEC 9,87		0.12		0.08	<T	0.020	<T	0.010		0.060		0.320		0.0427
DEC 12,87	DEC 11,87		0.14	<T	0.01	<T	0.010	<T	0.015	<T	0.010		0.225		0.0741
DEC 13,87	DEC 12,87		0.36		0.27		0.045		0.090		0.040		0.710		0.0072
DEC 15,87	DEC 14,87		0.60	<T	0.01		0.190	<T	0.015	<T	0.020	LQ	0.055	UQ	0.0001
DEC 16,87	DEC 15,87		0.32	<T	0.01		0.050	<T	0.010	<T	0.015		0.095		0.0257
DEC 17,87	DEC 16,87		******		******		******		******		******		******		******
DEC 20,87	DEC 19,87	<T	0.10	<T	0.01	<T	0.005	<T	0.020	<T	0.020		0.255		0.0676
DEC 21,87	DEC 20,87	!IS	******		0.18	!IS	******	!IS	******	!IS	******	!IS	******	!IS	******
DEC 23,87	DEC 22,87	!IS	******		0.56	!IS	******	!IS	******	!IS	******		0.300		0.0617
DEC 25,87	DEC 24,87		0.36		0.08		0.030	<T	0.015		0.080		0.295		0.0407
DEC 29,87	DEC 28,87		******		******		******		******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELLESLEY/DAILY/AEROCHEM 804 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,87	JAN 1,87	500	500	****	500	2	1.6	2	62546	2	1		1	E	N
JAN 3,87	JAN 2,87	500	830	500	1400	2	4.0	2	62548	2	1	U	3	F	
JAN 7,87	JAN 6,87	500	500	****	400	1	1.2	2	62550	2	1		84	C	
JAN 9,87	JAN 8,87	500	500	****	****	2	0.1	2	62552	2	1		93		
JAN 10,87	JAN 9,87	500	830	****	700	2	6.7	2	62554	2	1	U	8	F	
JAN 11,87	JAN 10,87	830	500	1100	1700	2	13.0	2	62556	2	1	U	16	F	
JAN 17,87	JAN 16,87	500	800	700	****	2	0.4	2	62558	2	1		440		N
JAN 18,87	JAN 17,87	830	1100	****	1100	2	10.2	2	62560	2	1		65		
JAN 19,87	JAN 18,87	1100	500	1100	1130	2	0.5	2	62562	2	1		6	E	N
JAN 20,87	JAN 19,87	500	500	1300	1900	2	14.0	2	62564	2	1		12		NHCM
JAN 21,87	JAN 20,87	500	500	****	500	2	0.9	2	62566	2	1		25		N
JAN 23,87	JAN 22,87	500	500	1100	1400	2	1.3	2	62569	2	1		16		N
JAN 24,87	JAN 23,87	500	500	800	2400	2	5.2	2	62571	2	1		0	E	N
JAN 29,87	JAN 28,87	500	500	530	1100	2	1.5	2	62573	2	1		24		N
JAN 30,87	JAN 29,87	500	500	****	500	2	3.0	2	62575	2	1		2		N
JAN 31,87	JAN 30,87	530	830	500	****	2	10.2	2	62577	2	1		46		N
FEB 3,87	FEB 2,87	500	500	2100	200	2	2.6	2	62579	2	1		67		H
FEB 5,87	FEB 4,87	500	500	1300	1600	2	2.2	2	62581	2	1		57		
FEB 8,87	FEB 7,87	500	1100	600	1030	2	1.7	2	62583	2	1		67		H
FEB 9,87	FEB 8,87	1100	500	1400	300	2	3.0	2	62585	2	1		45		N
FEB 13,87	FEB 12,87	500	500	1830	2300	2	0.9	2	62587	2	1		13		N
FEB 23,87	FEB 22,87	500	500	930	1200	2	0.5	2	62589	2	1		109		
MAR 1,87	FEB 28,87	830	1115	2200	1115	1	11.6	2	62591	2	1		81		
MAR 2,87	MAR 1,87	1115	500	1115	1400	3	7.4	2	62593	2	1	U	13	G	
MAR 4,87	MAR 3,87	500	500	800	1400	2	1.0	2	62595	2	1		10	E	N
MAR 13,87	MAR 12,87	500	500	****	400	2	0.1	2	62597	2	1		****	E	N
MAR 26,87	MAR 25,87	500	500	500	800	1	7.2	1	62600	2	1		96		
MAR 27,87	MAR 26,87	500	500	700	1000	1	1.7	1	62602	2	1		70	C	
MAR 30,87	MAR 29,87	500	500	****	500	1	10.9	1	62604	2	1		97		
MAR 31,87	MAR 30,87	500	500	500	1500	3	19.4	2	62606	2	1		42		NC
APR 1,87	MAR 31,87	500	500	500	1400	2	1.0	2	62608	2	1		17		N
APR 2,87	APR 1,87	500	500	2200	300	2	7.2	2	62610	2	1		23		N
APR 5,87	APR 4,87	830	1100	2200	1100	3	2.3	2	62612	2	1		103		
APR 6,87	APR 5,87	1100	500	1100	500	1	4.8	1	62614	2	1		115		
APR 7,87	APR 6,87	500	500	500	700	1	0.5	1	62616	2	1		202		N
APR 12,87	APR 11,87	830	1100	400	1100	1	4.0	1	62618	2	1		91		H
APR 13,87	APR 12,87	1100	500	1100	1600	1	11.4	1	62620	2	1		91		
APR 15,87	APR 14,87	500	500	1700	2100	1	3.0	1	62622	2	1		81		
APR 16,87	APR 15,87	500	500	****	****	1	0.7	1	62624	2	1		35		N
APR 24,87	APR 23,87	500	500	600	800	1	3.6	1	62626	2	1		89		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEN #04 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JAN 2,87	JAN 1,87	2.0		******		******		******	******		******		******		******
JAN 3,87	JAN 2,87	8.0	LG	2.8		******		5.77	******		0.0183	<T	0.20	LG	0.08
JAN 7,87	JAN 6,87	65.0		89.0		******		3.95	******		0.1740		6.20	UG	3.10
JAN 9,87	JAN 8,87	6.0		22.1		******		4.44	******		0.0537		1.80		0.68
JAN 10,87	JAN 9,87	38.0		17.9		******		4.48	******		0.0435		0.70		0.58
JAN 11,87	JAN 10,87	134.0		31.7		4.30		4.25	******		0.0741		2.50		0.78
JAN 17,87	JAN 16,87	113.0		35.2		4.20		4.19	******		0.0805		2.55		0.84
JAN 18,87	JAN 17,87	427.0		14.7		4.54		4.52	******		0.0426	LG	0.40		0.37
JAN 19,87	JAN 18,87	2.0		******		******		******	******		******		******		******
JAN 20,87	JAN 19,87	109.0	LG	2.9	UG	5.58		5.83	******		0.0160	LG	0.25	LG	0.04
JAN 21,87	JAN 20,87	15.0		15.1		******		4.62	******		0.0387		0.70		0.50
JAN 23,87	JAN 22,87	14.0		23.6		******		4.73	******		0.0416		1.80		0.83
JAN 24,87	JAN 23,87	2.0		******		******		******	******		******		******		******
JAN 29,87	JAN 28,87	24.0		14.6		******		5.07	******		0.0364	D	1.50		0.52
JAN 30,87	JAN 29,87	5.0		5.6		******		5.14	******		0.0256	LG	0.35		0.11
JAN 31,87	JAN 30,87	302.0		27.5		4.14		4.25	******		0.0827		1.60		0.65
FEB 3,87	FEB 2,87	112.0		9.3		5.02		5.22	******		0.0251		0.75		0.35
FEB 5,87	FEB 4,87	81.0		19.0		******		4.73	******		0.0441		2.05		0.56
FEB 8,87	FEB 7,87	74.0		23.0		******		5.33	******		0.0262		2.70		1.08
FEB 9,87	FEB 8,87	88.0		10.6		******		5.75	******		0.0209		0.80		0.46
FEB 13,87	FEB 12,87	8.0		12.0		******		5.15	******		0.0256		0.95		0.36
FEB 23,87	FEB 22,87	35.0	>	100.0		******		3.38	******	UG	0.4870	>	10.00	>	2.00
MAR 1,87	FEB 28,87	605.0		25.0		4.25		4.35	******		0.0738		1.60		0.37
MAR 2,87	MAR 1,87	63.0		20.3		******		4.49	******		0.0553		1.25		0.34
MAR 4,87	MAR 3,87	7.0		******		******		******	******		******		******		******
MAR 13,87	MAR 12,87	******		******		******		******	******		******		******		******
MAR 26,87	MAR 25,87	444.0		40.2		4.08		4.17	******		0.1000		3.40		0.86
MAR 27,87	MAR 26,87	77.0		32.4		******		4.61	******		0.0549		3.75		0.96
MAR 30,87	MAR 29,87	682.0		37.2		4.07		4.21	******		0.0948		3.70		0.61
MAR 31,87	MAR 30,87	532.0		7.2		4.87		5.21	******		0.0215		0.65	LG	0.08
APR 1,87	MAR 31,87	11.0	LG	4.2		******		6.23	******		0.0128	<T	0.20	<T	0.03
APR 2,87	APR 1,87	109.0		26.2		4.22		4.39	******		0.0713		1.75		0.60
APR 5,87	APR 4,87	153.0		22.2		4.39		4.61	******		0.0493		2.65		0.26
APR 6,87	APR 5,87	355.0		16.0		******		4.62	******	U	0.7470		2.85		0.21
APR 7,87	APR 6,87	65.0		8.0		******	UG	6.79	******		0.0157		1.30		0.16
APR 12,87	APR 11,87	235.0		16.0		******		5.38	******		0.0241		2.95		0.77
APR 13,87	APR 12,87	666.0		14.0		******		4.57	******		0.0482		1.45		0.30
APR 15,87	APR 14,87	157.0		54.0		******		4.05	******		0.1370		8.30		0.99
APR 16,87	APR 15,87	16.0		17.0		******		4.52	******		0.0528		2.70		0.24
APR 24,87	APR 23,87	206.0	UG	98.0		3.60		3.85	******		0.2060	UG	15.00	UG	3.45

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
JAN 2,87	JAN 1,87	######		######		######		######		######		######		######
JAN 3,87	JAN 2,87	!IS ######	<T	0.02	!IS	######	!IS	######	!IS	######	LG	0.050		0.0017
JAN 7,87	JAN 6,87	1.20		0.55		0.145		0.080		0.215		1.900		0.1122
JAN 9,87	JAN 8,87	!IS ######		0.14	!IS	######	!IS	######	!IS	######		0.540		0.0363
JAN 10,87	JAN 9,87	0.52		0.18		0.040	<T	0.005		0.035	LG	0.050		0.0331
JAN 11,87	JAN 10,87	0.30		0.22	<T	0.010	<T	0.020		0.055		0.620		0.0562
JAN 17,87	JAN 16,87	0.54		0.25		0.050	<T	0.015		0.065		0.435		0.0646
JAN 18,87	JAN 17,87	<T 0.08		0.19	<T	0.015	<W	0.005	<T	0.020	LG	0.055		0.0302
JAN 19,87	JAN 18,87	######		######		######		######		######		######		######
JAN 20,87	JAN 19,87	<T 0.02		0.05	<T	0.005	<W	0.005	<T	0.015		0.085		0.0015
JAN 21,87	JAN 20,87	0.24		0.30		0.055	<T	0.020		0.135		0.200		0.0240
JAN 23,87	JAN 22,87	0.86		0.98		0.110		0.035		0.545		0.485		0.0186
JAN 24,87	JAN 23,87	######		######		######		######		######		######		######
JAN 29,87	JAN 28,87	0.50		0.38		0.095		0.040		0.205		0.430		0.0085
JAN 30,87	JAN 29,87	<T 0.06		0.17	<T	0.015		0.050		0.095	<W	0.005		0.0072
JAN 31,87	JAN 30,87	<T 0.04		0.16	<T	0.015	<T	0.010		0.045		0.210		0.0562
FEB 3,87	FEB 2,87	0.14		0.10	<T	0.020	<T	0.010		0.055		0.290		0.0060
FEB 5,87	FEB 4,87	0.12		0.28		0.025	<T	0.020		0.095		0.850		0.0186
FEB 8,87	FEB 7,87	0.46		0.28		0.090	<T	0.020		0.105		1.500		0.0047
FEB 9,87	FEB 8,87	0.34		0.57		0.100	<T	0.010		0.310		0.380		0.0018
FEB 13,87	FEB 12,87	0.28		0.30		0.075	<T	0.010		0.135		0.265		0.0071
FEB 23,87	FEB 22,87	!IS ######	>	2.00	!IS	######	!IS	######	!IS	######		0.950		0.4169
MAR 1,87	FEB 28,87	<W 0.02		0.06	<T	0.005	<T	0.010	<T	0.020		0.150		0.0447
MAR 2,87	MAR 1,87	<T 0.04		0.05	<T	0.010	<T	0.015		0.025		0.225		0.0324
MAR 4,87	MAR 3,87	######		######		######		######		######		######		######
MAR 13,87	MAR 12,87	######		######		######		######		######		######		######
MAR 26,87	MAR 25,87	0.32		0.25		0.060		0.030		0.070		0.610		0.0676
MAR 27,87	MAR 26,87	0.38		0.38		0.035		0.040		0.070		1.550		0.0245
MAR 30,87	MAR 29,87	0.26		0.14	B	0.045		0.030		0.030		0.580		0.0617
MAR 31,87	MAR 30,87	<T 0.04	<T	0.02	<T	0.005	<T	0.010	<T	0.020		0.100		0.0062
APR 1,87	MAR 31,87	<T 0.06		0.10	<T	0.015	<T	0.015		0.070	!IS	######		0.0006
APR 2,87	APR 1,87	0.14		0.11	<T	0.025	<T	0.015		0.035		0.360		0.0407
APR 5,87	APR 4,87	0.14		0.42		0.055		0.035		0.285		0.500		0.0245
APR 6,87	APR 5,87	0.09		0.35		0.030		0.025		0.195		0.560		0.0240
APR 7,87	APR 6,87	0.28		0.19		0.060		0.035		0.140		0.580	UG	0.0002
APR 12,87	APR 11,87	1.26		0.31		0.235		0.030		0.050		0.640		0.0042
APR 13,87	APR 12,87	<T 0.10		0.10	<T	0.010	<W	0.005	<T	0.025		0.245		0.0269
APR 15,87	APR 14,87	1.44		0.40		0.340		0.085		0.130		0.700		0.0891
APR 16,87	APR 15,87	0.24		0.17		0.075		0.025		0.070		0.255		0.0302
APR 24,87	APR 23,87	UG 3.86		1.08	B	1.010		0.195		0.255		1.750		0.1413

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 28,87	APR 27,87	500	500	1500	300	1	7.2	1	62628	2	1		90		JH
MAY 11,87	MAY 10,87	500	500	2200	2300	1	2.1	1	62630	2	1	U	78	JCQ	
MAY 12,87	MAY 11,87	500	500	1630	1645	1	0.2	1	62632	2	1		****	E	N
MAY 15,87	MAY 14,87	500	500	1630	2200	1	11.8	1	62634	2	1		100	C	H
MAY 19,87	MAY 18,87	500	500	700	1400	1	9.2	1	62636	2	1		112		
MAY 20,87	MAY 19,87	500	500	****	400	1	2.6	1	62638	2	1		71		
MAY 21,87	MAY 20,87	500	500	600	1000	1	3.0	1	62640	2	1		82		C
MAY 22,87	MAY 21,87	500	500	800	930	1	1.6	1	62642	2	1		66	A	
MAY 27,87	MAY 26,87	500	500	800	1300	1	4.8	1	62644	2	1		89		
MAY 31,87	MAY 30,87	500	1140	2300	400	1	6.6	1	62646	2	1		103	A	
JUN 2,87	JUN 1,87	500	500	1540	1700	1	5.9	1	62648	2	1		97		
JUN 6,87	JUN 5,87	500	500	1200	1400	1	1.0	1	62650	2	1		46	Q	N
JUN 7,87	JUN 6,87	500	1030	****	400	1	3.4	1	62652	2	1		92		H
JUN 9,87	JUN 8,87	500	500	1000	1200	1	1.0	1	62654	2	1		71		HH
JUN 12,87	JUN 11,87	500	500	2000	300	1	7.7	1	62656	2	1		97	A	
JUN 22,87	JUN 20,87	800	1030	2400	630	1	16.7	1	62658	2	1		168	A	NZ
JUN 26,87	JUN 25,87	800	800	200	400	1	3.0	1	62660	2	1		91	A	C
JUN 27,87	JUN 26,87	800	730	1600	1700	1	0.4	1	62662	2	1		****	E	N
JUN 28,87	JUN 27,87	730	1410	300	500	1	4.2	1	62664	2	1		95		C
JUN 29,87	JUN 28,87	1410	1500	****	****	1	0.1	1	62666	2	1		****	E	N
JUL 3,87	JUL 2,87	800	1000	****	****	1	0.1	1	62668	2	1		****	E	N
JUL 4,87	JUL 3,87	1000	800	1300	1500	1	18.2	1	62670	2	1		103		
JUL 7,87	JUL 6,87	1630	700	1830	1900	1	3.0	1	62672	2	1		102		
JUL 9,87	JUL 7,87	730	2000	****	****	1	42.0	1	62674	2	1		103	A	Y2
JUL 12,87	JUL 11,87	530	1600	1530	1700	1	14.5	1	62680	2	1		91		
JUL 14,87	JUL 13,87	500	500	200	500	1	23.7	1	62682	2	1		100		
JUL 15,87	JUL 14,87	500	500	500	900	1	4.5	1	62684	2	1		65		CH
JUL 20,87	JUL 19,87	500	500	2130	****	1	23.1	1	62686	2	1		99	D	J
JUL 21,87	JUL 20,87	500	730	2300	100	1	3.4	1	62688	2	1		89		J
JUL 25,87	JUL 24,87	530	900	1830	****	1	26.8	1	62690	2	1		112		
JUL 30,87	JUL 29,87	800	800	****	****	1	0.1	1	62692	2	1		****	E	N
AUG 3,87	AUG 2,87	500	500	1200	1700	1	44.8	1	62694	2	1		108		J
AUG 8,87	AUG 7,87	500	1000	1630	1730	1	1.7	1	62696	2	1		42		N
AUG 9,87	AUG 8,87	1000	1130	600	1130	1	27.5	1	62698	2	1		104		
AUG 17,87	AUG 16,87	500	500	1820	1850	1	4.1	1	62700	2	1	U	85	EQ	
AUG 19,87	AUG 18,87	500	500	1930	1955	1	1.2	1	62702	2	1		65		H
AUG 22,87	AUG 21,87	500	500	****	300	1	3.0	1	62704	2	1		72		JH
AUG 24,87	AUG 23,87	500	500	****	****	1	0.6	1	62706	2	1		117		
AUG 27,87	AUG 26,87	500	500	1800	500	1	9.8	1	62707	2	1		96		
AUG 29,87	AUG 28,87	500	700	1500	2000	1	2.7	1	62709	2	1		96		JHH

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
APR 28,87	APR 27,87	420.0		21.9	UQ	5.19		6.54		******		0.0177		3.80		0.85	
MAY 11,87	MAY 10,87	105.0	U	93.1	U	7.54	U	8.01		******	U	0.0010	U	12.85	U	3.15	
MAY 12,87	MAY 11,87	******		******		******		******		******		******		******		******	
MAY 15,87	MAY 14,87	758.0		33.5		4.25		4.52		******		0.0614		5.65		0.84	
MAY 19,87	MAY 18,87	665.0		43.7		3.94		4.13		******		0.0906		5.50		0.50	
MAY 20,87	MAY 19,87	119.0		60.3		3.83		3.89		******		0.1500		6.00		0.72	
MAY 21,87	MAY 20,87	158.0	>	100.0		3.54		3.52		******		0.3240		9.50		1.93	
MAY 22,87	MAY 21,87	68.0		63.9		******		3.93		******		0.1460		6.55		1.17	
MAY 27,87	MAY 26,87	275.0		93.0		3.67		3.68		******		0.2290		8.85		1.09	
MAY 31,87	MAY 30,87	437.0		19.4		4.44		4.73		******		0.0364		2.30		0.57	
JUN 2,87	JUN 1,87	367.0		36.3		4.16		4.34		******		0.0692		3.65		1.15	
JUN 6,87	JUN 5,87	30.0		48.5		******	UQ	7.51		******		0.0121		5.05		1.46	
JUN 7,87	JUN 6,87	201.0		21.5		4.93		5.38		******		0.0284		3.40		0.84	
JUN 9,87	JUN 8,87	46.0		47.0		******	UQ	7.15		******		0.0187		4.90		1.43	
JUN 12,87	JUN 11,87	483.0		61.8		3.79		3.80		******		0.1600		6.45		0.86	
JUN 22,87	JUN 20,87	1802.0		38.6		4.17		4.19		******		0.0871		5.25		0.55	
JUN 26,87	JUN 25,87	175.0	>	100.0		3.49		3.47		******		0.3640		14.75		1.80	
JUN 27,87	JUN 26,87	******		******		******		******		******		******		******		******	
JUN 28,87	JUN 27,87	256.0	LQ	5.8	UQ	5.82		6.38		******		0.0135	LQ	0.35	LQ	0.10	
JUN 29,87	JUN 28,87	******		******		******		******		******		******		******		******	
JUL 3,87	JUL 2,87	******		******		******		******		******		******		******		******	
JUL 4,87	JUL 3,87	1202.0		43.9		4.03		4.13		******		0.1000		5.50		0.59	
JUL 7,87	JUL 6,87	197.0		36.1		4.26		4.45		******		0.0586		5.35		1.00	
JUL 9,87	JUL 7,87	2786.0		33.9		4.17		4.22		******		0.0812		3.20		0.60	
JUL 12,87	JUL 11,87	854.0		19.9		4.57		4.64		******		0.0422		2.85		0.45	
JUL 14,87	JUL 13,87	1534.0		19.5		4.34		4.44		******		0.0538		2.25		0.35	
JUL 15,87	JUL 14,87	188.0	LQ	3.3	UQ	5.18		5.51		******		0.0165	<T	0.15	<T	0.05	
JUL 20,87	JUL 19,87	1480.0		25.2		4.16		6.62		******		0.0161		5.30		0.35	
JUL 21,87	JUL 20,87	196.0		14.2		4.44		5.13		******		0.0258		2.10		0.40	
JUL 25,87	JUL 24,87	1936.0		76.5		******		3.78		******		0.2040		10.35		0.82	
JUL 30,87	JUL 29,87	******		******		******		******		******		******		******		******	
AUG 3,87	AUG 2,87	3106.0		24.0		4.04		4.52		******		0.0549		3.85		0.54	
AUG 8,87	AUG 7,87	46.0		21.0		******		4.34		******		0.0666		2.45		0.21	
AUG 9,87	AUG 8,87	1844.0		21.0		4.06		4.35		******		0.0666		2.45		0.21	
AUG 17,87	AUG 16,87	224.0		******		******		******		******		******		******		******	
AUG 19,87	AUG 18,87	50.0		12.5		******	UQ	7.24		******		0.0154		1.25		0.41	
AUG 22,87	AUG 21,87	140.0		26.5		3.92		4.39		******		0.0659		3.70		0.57	
AUG 24,87	AUG 23,87	45.0		80.0		******	UQ	7.58		******		0.0199		12.55		1.13	
AUG 27,87	AUG 26,87	604.0		16.5		4.36		4.53		******		0.0497		2.10		0.36	
AUG 29,87	AUG 28,87	167.0		8.0	UQ	6.03	UQ	6.96		******		0.0165		1.10		0.34	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELLESLEY/DAILY/AEROCHEM 804 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIN MG/L		POTASSIN MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
APR 28,87	APR 27,87		1.26		0.26		0.185		0.060		0.065		0.970		0.0003
MAY 11,87	MAY 10,87	U	14.00	U	1.83	U	2.200	U	1.060	U	0.530	U	4.950	U	0.0000
MAY 12,87	MAY 11,87		******		******		******		******		******		******		******
MAY 15,87	MAY 14,87		1.96		0.22		0.285		0.050		0.025		0.880		0.0302
MAY 19,87	MAY 18,87		0.30		0.11		0.050	<T	0.025	<T	0.010		0.820		0.0741
MAY 20,87	MAY 19,87		0.22		0.12		0.045	<T	0.020		0.040		0.535		0.1288
MAY 21,87	MAY 20,87		0.14		0.26	<T	0.015		0.030		0.075		0.850		0.3020
MAY 22,87	MAY 21,87		0.64		0.29		0.095		0.105		0.100		1.200		0.1175
MAY 27,87	MAY 26,87		0.64		0.22		0.105		0.030		0.055		0.725		0.2089
MAY 31,87	MAY 30,87		0.74		0.09		0.175		0.035		0.075		0.285		0.0186
JUN 2,87	JUN 1,87		0.84		0.16		0.145		0.050		0.060		0.900		0.0457
JUN 6,87	JUN 5,87		3.16		0.28		0.670		0.190	UG	0.270	!IS	******	UG	0.0000
JUN 7,87	JUN 6,87		1.30		0.16		0.235		0.055		0.045		0.950		0.0042
JUN 9,87	JUN 8,87		3.10		0.28		0.475		0.210		0.105		2.300	UG	0.0001
JUN 12,87	JUN 11,87		0.55		0.20		0.115		0.050		0.040		0.540		0.1585
JUN 22,87	JUN 20,87		0.56		0.10		0.095		0.025	<T	0.020		0.720		0.0646
JUN 26,87	JUN 25,87		0.58		0.45		0.140		0.055		0.125		0.900		0.3388
JUN 27,87	JUN 26,87		******		******		******		******		******		******		******
JUN 28,87	JUN 27,87		0.12		0.05		0.025	<T	0.020		0.055		0.175		0.0004
JUN 29,87	JUN 28,87		******		******		******		******		******		******		******
JUL 3,87	JUL 2,87		******		******		******		******		******		******		******
JUL 4,87	JUL 3,87		0.30		0.17		0.090		0.050		0.040		0.950		0.0741
JUL 7,87	JUL 6,87		1.64		0.30		0.290		0.060		0.135		0.630		0.0355
JUL 9,87	JUL 7,87		0.36	<W	0.01		0.070	<T	0.015		0.030		0.475		0.0603
JUL 12,87	JUL 11,87		0.52		0.10		0.100		0.030		0.030		0.505		0.0229
JUL 14,87	JUL 13,87		0.18		0.10		0.040	<T	0.020	<T	0.020		0.370		0.0363
JUL 15,87	JUL 14,87	<W	0.02	<W	0.01	<W	0.005	<W	0.005	<T	0.005	LQ	0.035		0.0031
JUL 20,87	JUL 19,87	!IS	******	UG	1.30	!IS	******	!IS	******	!IS	******	!IS	******		0.0002
JUL 21,87	JUL 20,87		0.54		0.20		0.115		0.125		0.130		0.330		0.0074
JUL 25,87	JUL 24,87		0.82		0.22		0.140		0.030		0.040		0.830		0.1660
JUL 30,87	JUL 29,87		******		******		******		******		******		******		******
AUG 3,87	AUG 2,87		0.62		0.11		0.060	<T	0.020		0.035		0.675		0.0302
AUG 8,87	AUG 7,87		0.14		0.09	<T	0.010	<W	0.005	<T	0.005		0.155		0.0457
AUG 9,87	AUG 8,87		0.12		0.13	<T	0.015	<W	0.005	<T	0.010		0.150		0.0447
AUG 17,87	AUG 16,87		******		******		******		******		******		******		******
AUG 19,87	AUG 18,87		0.64		0.07		0.130		0.045		0.050		0.900	UG	0.0001
AUG 22,87	AUG 21,87		0.88		0.11		0.155		0.045		0.040		0.505		0.0407
AUG 24,87	AUG 23,87	UG	6.60	UG	11.50		0.890	UG	1.260	U	7.710		0.240	UG	0.0000
AUG 27,87	AUG 26,87		0.32		0.11		0.070	<T	0.015	<T	0.025		0.235		0.0295
AUG 29,87	AUG 28,87		0.48		0.10		0.065	<T	0.005		0.025		0.515	UG	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 31,87	AUG 30,87	500	500	200	430	1	1.0	1	62711	2	1	39		N
SEP 1,87	AUG 31,87	500	500	****	400	1	1.0	1	62713	2	1	62		
SEP 2,87	SEP 1,87	500	500	****	430	1	2.0	1	62715	2	1	82		H
SEP 4,87	SEP 3,87	500	500	****	****	1	5.0	1	62717	2	1	80		
SEP 12,87	SEP 11,87	500	500	1200	1400	1	25.0	1	62719	2	1	107		
SEP 13,87	SEP 12,87	500	500	1400	1600	1	3.0	1	62721	2	1	84		
SEP 14,87	SEP 13,87	500	500	1300	1315	1	0.2	1	62723	2	1	****	E	N
SEP 17,87	SEP 16,87	500	500	2200	300	1	4.4	1	62725	2	1	83		
SEP 18,87	SEP 17,87	500	500	1300	1400	1	5.5	1	62727	2	1	93	A	
SEP 19,87	SEP 18,87	500	500	800	800	1	4.9	1	62729	2	1	85		
SEP 20,87	SEP 19,87	500	500	1300	1700	1	3.3	1	62731	2	1	****	EI	
SEP 21,87	SEP 20,87	500	500	200	500	1	11.0	1	62733	2	1	99		
SEP 22,87	SEP 21,87	500	500	2030	****	1	3.1	1	62735	2	1	78		
SEP 28,87	SEP 27,87	500	500	1400	1600	1	2.9	1	62737	2	1	70		
SEP 30,87	SEP 29,87	500	500	1400	1630	1	12.6	1	62739	2	1	103		
OCT 1,87	SEP 30,87	500	500	1400	1600	1	3.9	1	62741	2	1	85		J
OCT 2,87	OCT 1,87	500	500	2100	2200	1	2.5	1	62743	2	1	79		
OCT 3,87	OCT 2,87	500	500	1400	2000	1	6.5	1	62745	2	1	93		
OCT 6,87	OCT 5,87	500	500	****	300	1	1.7	1	62747	2	1	78		H
OCT 8,87	OCT 7,87	500	500	1200	****	1	10.1	1	62749	2	1	92		
OCT 11,87	OCT 10,87	500	500	****	400	3	1.5	1	62751	2	1	58		
OCT 18,87	OCT 17,87	500	500	1000	1600	1	5.9	1	62753	2	1	83		HM
OCT 20,87	OCT 19,87	500	500	****	200	1	0.5	1	62755	2	1	74		
OCT 21,87	OCT 20,87	500	500	1200	1600	1	3.1	1	62758	2	1	85		JC
OCT 22,87	OCT 21,87	500	500	700	1300	3	6.0	1	62760	2	1	90		
OCT 23,87	OCT 22,87	500	500	1600	300	3	11.0	1	62762	2	1	97		
OCT 25,87	OCT 24,87	500	500	1100	2000	1	19.0	1	62764	2	1	105		J
OCT 27,87	OCT 26,87	500	500	****	****	1	2.4	2	62766	2	1	100		
OCT 28,87	OCT 27,87	500	500	500	1300	3	16.4	2	62768	2	1	93		
OCT 30,87	OCT 29,87	500	500	****	****	3	2.8	2	62770	2	1	113		HM
NOV 2,87	NOV 1,87	500	500	1500	1505	4	0.1	2	62772	2	1	****	E	N
NOV 4,87	NOV 3,87	500	500	500	700	1	1.4	2	62774	2	1	172		N
NOV 5,87	NOV 4,87	500	500	2130	2140	1	0.3	2	62776	2	1	187		N
NOV 6,87	NOV 5,87	500	500	2200	500	2	3.7	2	62778	2	1	90		HCM
NOV 7,87	NOV 6,87	500	500	500	800	2	1.7	2	62780	2	1	52		HCM
NOV 8,87	NOV 7,87	500	500	****	500	1	5.2	2	62782	2	1	102		
NOV 9,87	NOV 8,87	500	500	500	****	1	6.4	2	62784	2	1	96	A	
NOV 18,87	NOV 17,87	500	500	600	1600	1	2.8	2	62786	2	1	170		NJ
NOV 19,87	NOV 18,87	500	500	700	1200	1	1.5	2	62788	2	1	125		NJ
NOV 20,87	NOV 19,87	500	500	2300	300	3	2.0	2	62790	2	1	56		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
AUG 31,87	AUG 30,87	25.0		56.0		******		4.00		******	0.1240		6.40		1.05	
SEP 1,87	AUG 31,87	40.0		9.0		******	UG	7.01		******	0.0194		1.50		0.20	
SEP 2,87	SEP 1,87	106.0	LG	5.0		******		6.20		******	0.0170	LG	0.80		0.14	
SEP 4,87	SEP 3,87	258.0	LG	5.0		******		5.55		******	0.0217		0.85	LG	0.10	
SEP 12,87	SEP 11,87	1715.0		65.0		3.76		3.82		******	0.1790		7.10		0.66	
SEP 13,87	SEP 12,87	162.0		88.0		3.61		3.69		******	0.2380		9.00		1.09	
SEP 14,87	SEP 13,87	******	!NR	******		******	!NR	******		******	******	!NR	******	!NR	******	!NR
SEP 17,87	SEP 16,87	235.0		43.5		4.00		4.13		******	0.1030		4.95		0.85	
SEP 18,87	SEP 17,87	329.0		51.0		******		3.98		******	0.1370		5.15		0.76	
SEP 19,87	SEP 18,87	270.0		15.0		4.34		4.56		******	0.0475		1.35		0.30	
SEP 20,87	SEP 19,87	******		******		******		******		******	******		******		******	
SEP 21,87	SEP 20,87	701.0		37.5		4.06		4.20		******	0.0920		3.85		0.88	
SEP 22,87	SEP 21,87	155.0		19.0		4.34		4.59		******	0.0484		2.00		0.55	
SEP 28,87	SEP 27,87	131.0		59.0		4.02		4.01		******	0.1330		7.10		0.99	
SEP 30,87	SEP 29,87	836.0		36.0		4.32		4.42		******	0.0705		5.60		0.51	
OCT 1,87	SEP 30,87	215.0	LG	4.5	UG	5.64		6.22		******	0.0198		1.10	LG	0.06	
OCT 2,87	OCT 1,87	128.0		21.5	UG	6.42		6.73		******	0.0172		4.05		0.76	
OCT 3,87	OCT 2,87	391.0	LG	4.0	UG	5.86		6.34		******	0.0177		0.95	LG	0.11	
OCT 6,87	OCT 5,87	86.0		16.0		******		4.66		******	0.0441		1.95		0.47	
OCT 8,87	OCT 7,87	598.0		7.5		4.93		5.22		******	0.0237		1.15		0.23	
OCT 11,87	OCT 10,87	56.0		16.0		******		6.17		******	0.0203		2.45		0.64	
OCT 18,87	OCT 17,87	317.0		20.0		4.26		4.47		******	0.0535		2.50		0.31	
OCT 20,87	OCT 19,87	24.0		47.0		******		4.11		******	0.1030		3.15		1.57	
OCT 21,87	OCT 20,87	169.0	>	100.0		3.85		3.58		******	0.2880		8.70	UG	3.50	
OCT 22,87	OCT 21,87	347.0		14.5		4.88		4.73		******	0.0395		1.60		0.36	
OCT 23,87	OCT 22,87	690.0		16.5		4.81		4.63		******	0.0430		1.30		0.57	
OCT 25,87	OCT 24,87	1290.0		25.0		4.60		4.37		******	0.0619		2.25		0.49	
OCT 27,87	OCT 26,87	155.0		42.0		******		4.00		******	0.1320		3.00		0.87	
OCT 28,87	OCT 27,87	986.0		16.0		******		4.47		******	0.0643		1.65		0.35	
OCT 30,87	OCT 29,87	204.0	LG	5.0		******		5.93		******	0.0189		1.00		0.34	
NOV 2,87	NOV 1,87	******		******		******		******		******	******		******		******	
NOV 4,87	NOV 3,87	155.0		23.0		4.15		4.39		******	0.0724		3.30		0.42	
NOV 5,87	NOV 4,87	36.0		17.0		******		6.26		******	0.0208		3.55		0.82	
NOV 6,87	NOV 5,87	215.0	LG	2.5	UG	6.00		6.44		******	0.0156		0.80	LG	0.07	
NOV 7,87	NOV 6,87	57.0	LG	3.5		******		6.37		******	0.0172		1.15		0.14	
NOV 8,87	NOV 7,87	342.0		19.0		4.28		4.35		******	0.0792		1.90		0.37	
NOV 9,87	NOV 8,87	396.0		25.0		4.19		4.28		******	0.0898		2.50		0.58	
NOV 18,87	NOV 17,87	306.0		20.0		3.82		4.50		******	0.0619		2.50		0.64	
NOV 19,87	NOV 18,87	121.0		14.0		4.36		5.00		******	0.0364		2.75		0.45	
NOV 20,87	NOV 19,87	72.0		10.0		******	UG	6.67		******	0.0211		1.50		0.62	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
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STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIN MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 31,87	AUG 30,87	!IS ******	0.34	!IS ******	!IS ******	!IS ******	1.000	0.1000
SEP 1,87	AUG 31,87	!IS ******	0.12	!IS ******	!IS ******	!IS ******	0.795	UG 0.0001
SEP 2,87	SEP 1,87	<T 0.06	<T 0.05	<T 0.010	<T 0.015	0.040	0.325	0.0006
SEP 4,87	SEP 3,87	<T 0.04	<T 0.02	<T 0.005	<T 0.025	<T 0.020	0.300	0.0028
SEP 12,87	SEP 11,87	0.26	0.17	0.050	<T 0.020	<T 0.015	0.490	0.1514
SEP 13,87	SEP 12,87	0.20	0.19	<T 0.020	0.035	0.035	0.710	0.2042
SEP 14,87	SEP 13,87	!NR ******	!NR ******	!NR ******	!NR ******	!NR ******	!NR ******	!NR ******
SEP 17,87	SEP 16,87	0.42	0.18	0.065	0.040	0.035	0.850	0.0741
SEP 18,87	SEP 17,87	0.22	0.16	<T 0.025	0.025	0.040	0.565	0.1047
SEP 19,87	SEP 18,87	<W 0.02	<T 0.02	<T 0.005	<T 0.020	<T 0.010	0.265	0.0275
SEP 20,87	SEP 19,87	******	******	******	******	******	******	******
SEP 21,87	SEP 20,87	0.32	0.15	0.050	0.050	<T 0.020	0.835	0.0631
SEP 22,87	SEP 21,87	0.36	0.12	0.060	<T 0.015	<T 0.025	0.475	0.0257
SEP 28,87	SEP 27,87	1.08	0.17	0.155	0.055	0.035	0.850	0.0977
SEP 30,87	SEP 29,87	0.40	0.13	0.045	0.035	0.025	1.350	0.0380
OCT 1,87	SEP 30,87	<T 0.08	<T 0.04	<T 0.025	<T 0.015	<T 0.010	0.385	0.0006
OCT 2,87	OCT 1,87	1.64	0.11	0.235	0.125	0.110	0.825	0.0002
OCT 3,87	OCT 2,87	0.32	<T 0.01	0.050	<T 0.025	0.040	0.210	0.0005
OCT 6,87	OCT 5,87	0.66	0.05	0.105	0.025	0.035	0.290	0.0219
OCT 8,87	OCT 7,87	0.14	<T 0.03	0.025	<T 0.005	0.030	0.355	0.0060
OCT 11,87	OCT 10,87	0.88	0.27	0.140	0.045	0.085	0.700	0.0007
OCT 18,87	OCT 17,87	0.38	0.07	0.060	<T 0.020	0.025	0.455	0.0339
OCT 20,87	OCT 19,87	0.88	0.21	0.150	0.045	0.100	!IS ******	0.0776
OCT 21,87	OCT 20,87	0.96	0.61	0.165	0.080	0.075	2.050	0.2630
OCT 22,87	OCT 21,87	0.12	0.11	0.035	<T 0.010	0.025	0.485	0.0186
OCT 23,87	OCT 22,87	0.24	0.06	0.040	<T 0.025	<T 0.010	0.435	0.0234
OCT 25,87	OCT 24,87	0.38	0.09	0.040	0.030	0.025	0.310	0.0427
OCT 27,87	OCT 26,87	0.20	0.27	<T 0.025	<T 0.010	0.025	0.170	0.1000
OCT 28,87	OCT 27,87	<T 0.02	0.08	<T 0.010	<T 0.015	<T 0.010	0.260	0.0339
OCT 30,87	OCT 29,87	<T 0.04	0.13	<T 0.015	<T 0.020	<T 0.010	0.460	0.0012
NOV 2,87	NOV 1,87	******	******	******	******	******	******	******
NOV 4,87	NOV 3,87	0.10	0.21	0.045	0.050	0.075	0.520	0.0407
NOV 5,87	NOV 4,87	0.62	0.21	0.170	0.085	0.050	!IS ******	0.0005
NOV 6,87	NOV 5,87	0.16	0.15	0.040	<T 0.020	<T 0.015	0.220	0.0004
NOV 7,87	NOV 6,87	0.12	0.23	0.045	<T 0.015	0.120	0.325	0.0004
NOV 8,87	NOV 7,87	0.24	0.13	0.030	0.030	<T 0.015	0.155	0.0447
NOV 9,87	NOV 8,87	0.14	0.21	<T 0.015	0.060	0.050	0.365	0.0525
NOV 18,87	NOV 17,87	0.40	0.26	0.060	0.045	0.080	0.615	0.0316
NOV 19,87	NOV 18,87	0.20	0.15	0.040	0.030	<T 0.020	0.900	0.0100
NOV 20,87	NOV 19,87	0.72	0.19	0.140	0.045	0.030	0.650	UG 0.0002

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
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STATION NAME : WELLESLEY/DAILY/AEROCHEM 804

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 21,87	NOV 20,87	500	500	100	300	2	1.7	2	62792	2	1	37		NHCM
NOV 25,87	NOV 24,87	500	500	1300	1430	3	2.3	2	62794	2	1	70		JH
NOV 26,87	NOV 25,87	500	500	500	1800	3	41.6	2	62796	2	1	95		JHM
NOV 29,87	NOV 28,87	500	1100	1800	2100	1	9.8	2	62798	2	1	100		J
NOV 30,87	NOV 29,87	1100	500	2200	300	1	1.4	2	62800	2	1	81		
DEC 1,87	NOV 30,87	500	500	1800	2000	3	1.5	2	62802	2	1	76		
DEC 2,87	DEC 1,87	500	500	500	1600	2	1.3	2	62804	2	1	10		
DEC 3,87	DEC 2,87	500	500	700	1000	2	1.7	2	62806	2	1	41		N
DEC 4,87	DEC 3,87	500	500	****	****	2	2.9	2	62808	2	1	21		N
DEC 8,87	DEC 7,87	500	500	****	****	3	0.8	2	62810	2	1	122		N
DEC 9,87	DEC 8,87	500	500	2200	300	1	3.5	2	62812	2	1	97		J
DEC 10,87	DEC 9,87	500	500	1000	1300	1	5.9	2	62814	2	1	112		JH
DEC 12,87	DEC 11,87	500	500	1600	200	1	4.0	2	62816	2	1	101		
DEC 13,87	DEC 12,87	500	500	1300	1700	2	5.9	2	62818	2	1	51		
DEC 14,87	DEC 13,87	500	500	1000	1100	1	0.1	2	62820	2	1	****	E	
DEC 16,87	DEC 15,87	500	500	530	1100	2	29.0	2	62822	2	1	54	C	
DEC 20,87	DEC 19,87	500	1100	2000	1000	3	21.4	2	62824	2	1	86		X
DEC 22,87	DEC 21,87	500	500	1200	1900	3	0.5	2	62826	2	1	****	E	N
DEC 25,87	DEC 24,87	500	500	100	300	1	9.6	2	62828	2	1	98		

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STATION NAME : WELLESLEY/DAILY/AEROCHEM 804 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM	PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
NOV 21,87	NOV 20,87	41.0	<T	0.5	******		6.36		******		0.0166		<T 0.15		<T 0.03	
NOV 25,87	NOV 24,87	104.0		19.0	3.81		4.44		******		0.0606		1.60		0.42	
NOV 26,87	NOV 25,87	2542.0		10.0	3.84		4.53		******		0.0514		0.75	LQ	0.09	
NOV 29,87	NOV 28,87	629.0		11.0	3.86		4.56		******		0.0448		1.00		0.11	
NOV 30,87	NOV 29,87	73.0		62.5	******		3.83		******		0.1600		3.95		1.15	
DEC 1,87	NOV 30,87	74.0		22.0	******		4.42		******		0.0621		2.00		0.48	
DEC 2,87	DEC 1,87	9.0	<T	0.5	******		6.07		******		0.0169		<T 0.25	<T	0.01	
DEC 3,87	DEC 2,87	45.0	LQ	4.0	******		6.02		******		0.0188		0.55	LQ	0.10	
DEC 4,87	DEC 3,87	40.0	D	11.0	******	D	4.67		******	D	0.0413	D	0.90		0.30	
DEC 8,87	DEC 7,87	63.0		35.0	******		4.08		******		0.1050		2.85		0.50	
DEC 9,87	DEC 8,87	218.0		34.0	3.61		4.09		******		0.1030		2.45		0.53	
DEC 10,87	DEC 9,87	425.0		18.0	3.77		4.40		******		0.0614		1.70		0.27	
DEC 12,87	DEC 11,87	259.0		38.0	3.98		4.08		******		0.1020		2.50		0.78	
DEC 13,87	DEC 12,87	196.0		15.0	4.77		5.01		******		0.0327		2.15		0.44	
DEC 14,87	DEC 13,87	******		******	******		******		******		******		******		******	
DEC 16,87	DEC 15,87	1005.0		15.0	4.34		4.46		******		0.0522		1.60		0.27	
DEC 20,87	DEC 19,87	1182.0		******	******		******		******		******		******		******	
DEC 22,87	DEC 21,87	******		******	******		******		******		******		******		******	
DEC 25,87	DEC 24,87	606.0		24.0	4.41		4.41		******		0.0666		2.00		0.43	

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 21,87	NOV 20,87	<T 0.04	0.09	<T 0.015	<T 0.015	0.035	0.065	0.0004
NOV 25,87	NOV 24,87	0.34	0.43	0.055	<T 0.020	0.120	0.360	0.0363
NOV 26,87	NOV 25,87	<W 0.02	<T 0.01	<W 0.005	<W 0.005	<W 0.005	0.065	0.0295
NOV 29,87	NOV 28,87	<W 0.02	0.06	<W 0.005	<W 0.005	<T 0.010	0.080	0.0275
NOV 30,87	NOV 29,87	0.20	0.12	<T 0.020	<T 0.005	0.030	0.215	0.1479
DEC 1,87	NOV 30,87	0.16	0.22	<T 0.015	<T 0.010	0.030	0.520	0.0380
DEC 2,87	DEC 1,87	!IS ******	<T 0.01	!IS ******	!IS ******	!IS ******	0.065	0.0009
DEC 3,87	DEC 2,87	!IS ******	0.23	!IS ******	!IS ******	!IS ******	0.195	0.0010
DEC 4,87	DEC 3,87	!IS ****** D	0.07	!IS ******	!IS ******	!IS ******	D 0.205	D 0.0214
DEC 8,87	DEC 7,87	0.24	0.30	0.040	<T 0.010	0.150	0.125	0.0832
DEC 9,87	DEC 8,87	0.22	0.45	0.045	<T 0.005	0.190	0.165	0.0813
DEC 10,87	DEC 9,87	<T 0.08	0.08	<T 0.015	<T 0.005	0.055	0.305	0.0398
DEC 12,87	DEC 11,87	0.18	0.14	<T 0.020	<T 0.015	0.030	0.325	0.0832
DEC 13,87	DEC 12,87	0.28	0.24	0.040	0.055	0.045	0.710	0.0098
DEC 14,87	DEC 13,87	******	******	******	******	******	******	******
DEC 16,87	DEC 15,87	0.16	<T 0.01	0.040	<T 0.020	<T 0.020	0.145	0.0347
DEC 20,87	DEC 19,87	******	******	******	******	******	******	******
DEC 22,87	DEC 21,87	******	******	******	******	******	******	******
DEC 25,87	DEC 24,87	0.18	0.07	<T 0.010	<T 0.010	0.070	0.270	0.0389

PART VII

QUEBEC INTERCOMPARISON SITE

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 3,87	JAN 2,87	825	840	1735	****	2	14.3	2	75051	2	1	U 55	EGC	
JAN 4,87	JAN 3,87	845	850	****	****	2	0.3	2	75052	2	1	****	E	N
JAN 5,87	JAN 4,87	850	840	300	700	2	0.1	2	75053	2	1	****	E	N
JAN 6,87	JAN 5,87	845	850	815	930	2	0.1	2	75054	2	1	****	E	N
JAN 7,87	JAN 6,87	855	820	710	820	2	0.4	2	75055	2	1	101		
JAN 8,87	JAN 7,87	825	835	1800	835	2	10.2	2	75056	2	1	26		N
JAN 9,87	JAN 8,87	840	825	840	1400	2	0.3	2	75057	2	1	****	E	N
JAN 10,87	JAN 9,87	840	850	840	1300	2	0.1	2	75058	2	1	****	E	N
JAN 11,87	JAN 10,87	855	835	1000	1545	2	2.8	2	75059	2	1	77		
JAN 12,87	JAN 11,87	840	830	840	830	2	12.0	2	75060	2	1	40		N
JAN 13,87	JAN 12,87	835	845	1400	845	2	2.2	2	75061	2	1	28		N
JAN 14,87	JAN 13,87	850	825	850	1400	2	0.1	2	75062	2	1	****	E	N
JAN 15,87	JAN 14,87	830	810	400	830	1	0.1	2	75063	2	1	****	E	N
JAN 16,87	JAN 15,87	815	830	815	200	3	6.8	2	75064	2	1	73	C	
JAN 19,87	JAN 18,87	820	825	1320	2100	3	7.2	2	75065	2	1	59		
JAN 20,87	JAN 19,87	830	830	830	850	2	0.1	2	75066	2	1	****	E	N
JAN 21,87	JAN 20,87	835	825	300	825	2	0.1	2	75067	2	1	****	E	N
JAN 22,87	JAN 21,87	830	830	830	1530	2	0.6	2	75068	2	1	49		N
JAN 23,87	JAN 22,87	835	820	1540	820	2	17.5	2	75069	2	1	57		CN
JAN 24,87	JAN 23,87	825	835	825	1600	2	1.4	2	75070	2	1	34		N
JAN 25,87	JAN 24,87	840	840	840	1600	2	1.3	2	75071	2	1	7		XN
JAN 29,87	JAN 28,87	810	815	830	915	2	0.1	2	75072	2	1	****	E	N
JAN 30,87	JAN 29,87	820	840	820	1610	2	0.3	2	75073	2	1	98		
JAN 31,87	JAN 30,87	845	845	1245	845	2	2.8	2	75074	2	1	80		
FEB 1,87	JAN 31,87	850	835	****	1610	2	2.2	2	75076	2	1	29		N
FEB 2,87	FEB 1,87	840	840	200	840	2	1.4	2	75077	2	1	102		
FEB 3,87	FEB 2,87	845	840	845	840	3	3.1	2	75078	2	1	U 161	GE	
FEB 4,87	FEB 3,87	845	830	845	715	2	1.3	2	75079	2	1	79		
FEB 5,87	FEB 4,87	835	825	1130	1150	2	0.1	2	75080	2	1	****	E	N
FEB 6,87	FEB 5,87	830	835	2300	700	2	2.4	2	75081	2	1	69		
FEB 7,87	FEB 6,87	840	835	200	835	2	3.0	2	75082	2	1	74		
FEB 8,87	FEB 7,87	840	830	840	1345	2	1.8	2	75083	2	1	88		
FEB 9,87	FEB 8,87	835	815	1050	700	2	10.2	2	75084	2	1	74		
FEB 10,87	FEB 9,87	820	830	820	915	2	0.1	2	75085	2	1	****	E	N
FEB 11,87	FEB 10,87	835	830	1315	1430	2	0.1	2	75086	2	1	****	E	N
FEB 13,87	FEB 12,87	820	830	2010	830	2	3.0	2	75087	2	1	81		
FEB 14,87	FEB 13,87	835	835	835	930	2	0.1	2	75088	2	1	****	E	N
FEB 24,87	FEB 23,87	825	830	200	645	2	0.1	2	75089	2	1	****	E	N
FEB 25,87	FEB 24,87	835	850	940	1015	2	0.1	2	75091	2	1	****	E	N
MAR 1,87	FEB 28,87	805	815	710	815	2	0.2	2	75092	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L	NITRATE AS N MG/L
JAN 3,87	JAN 2,87	512.0	******	******	******	******	******		******	******
JAN 4,87	JAN 3,87	******	******	******	******	******	******		******	******
JAN 5,87	JAN 4,87	******	******	******	******	******	******		******	******
JAN 6,87	JAN 5,87	******	******	******	******	******	******		******	******
JAN 7,87	JAN 6,87	26.0	43.4	******	4.11	******	0.1070		1.95	1.20
JAN 8,87	JAN 7,87	173.0	73.2	******	3.90	******	0.1630		4.40	1.74
JAN 9,87	JAN 8,87	******	******	******	******	******	******		******	******
JAN 10,87	JAN 9,87	******	******	******	******	******	******		******	******
JAN 11,87	JAN 10,87	139.0	12.4	******	4.66	******	0.0416		0.80	0.19
JAN 12,87	JAN 11,87	315.0	8.9	******	4.98	******	0.0293		1.05	0.09
JAN 13,87	JAN 12,87	40.0	16.5	******	4.75	******	0.0412		1.70	0.24
JAN 14,87	JAN 13,87	******	******	******	******	******	******		******	******
JAN 15,87	JAN 14,87	******	******	******	******	******	******		******	******
JAN 16,87	JAN 15,87	320.0	73.5	******	3.92	******	0.1640		4.25	1.79
JAN 19,87	JAN 18,87	274.0	21.2	******	4.43	******	0.0607		1.05	0.44
JAN 20,87	JAN 19,87	******	******	******	******	******	******		******	******
JAN 21,87	JAN 20,87	******	******	******	******	******	******		******	******
JAN 22,87	JAN 21,87	19.0	15.5	******	4.62	******	0.0432		0.35	0.46
JAN 23,87	JAN 22,87	645.0	6.6	******	5.04	******	0.0266	LG	0.25	0.12
JAN 24,87	JAN 23,87	31.0	39.0	******	4.17	******	0.0944		1.80	0.92
JAN 25,87	JAN 24,87	6.0	******	******	******	******	******		******	******
JAN 29,87	JAN 28,87	******	******	******	******	******	******		******	******
JAN 30,87	JAN 29,87	19.0	41.7	******	4.14	******	0.1070		1.55	1.05
JAN 31,87	JAN 30,87	144.0	17.9	******	4.48	******	0.0547		0.65	0.39
FEB 1,87	JAN 31,87	41.0	14.5	******	4.65	******	0.0470		1.00	0.20
FEB 2,87	FEB 1,87	92.0	42.5	******	4.13	******	0.1040		2.05	1.01
FEB 3,87	FEB 2,87	320.0	******	******	******	******	******		******	******
FEB 4,87	FEB 3,87	66.0	55.7	******	3.93	******	0.1340		2.75	1.27
FEB 5,87	FEB 4,87	******	******	******	******	******	******		******	******
FEB 6,87	FEB 5,87	107.0	38.1	******	4.14	******	0.0869		1.20	1.20
FEB 7,87	FEB 6,87	144.0	61.4	******	3.91	******	0.1370		1.65	1.93
FEB 8,87	FEB 7,87	102.0	56.3	******	4.00	******	0.1180		3.20	1.59
FEB 9,87	FEB 8,87	484.0	28.0	******	4.19	******	0.0761		0.85	0.80
FEB 10,87	FEB 9,87	******	******	******	******	******	******		******	******
FEB 11,87	FEB 10,87	******	******	******	******	******	******		******	******
FEB 13,87	FEB 12,87	157.0	12.9	******	4.67	******	0.0363		0.40	0.41
FEB 14,87	FEB 13,87	******	******	******	******	******	******		******	******
FEB 24,87	FEB 23,87	******	******	******	******	******	******		******	******
FEB 25,87	FEB 24,87	******	******	******	******	******	******		******	******
MAR 1,87	FEB 28,87	******	******	******	******	******	******		******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIN MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 3,87	JAN 2,87	******	******	******	******	******	******	******
JAN 4,87	JAN 3,87	******	******	******	******	******	******	******
JAN 5,87	JAN 4,87	******	******	******	******	******	******	******
JAN 6,87	JAN 5,87	******	******	******	******	******	******	******
JAN 7,87	JAN 6,87	0.38	0.27	0.045	0.030	0.155	0.210	0.0776
JAN 8,87	JAN 7,87	0.30	0.46	<T 0.020	0.095	0.115	1.100	0.1259
JAN 9,87	JAN 8,87	******	******	******	******	******	******	******
JAN 10,87	JAN 9,87	******	******	******	******	******	******	******
JAN 11,87	JAN 10,87	<T 0.02	0.08	<W 0.005	<T 0.005	<T 0.025	0.030	0.0219
JAN 12,87	JAN 11,87	0.22	0.06	<W 0.005	<T 0.015	<T 0.020	0.080	0.0105
JAN 13,87	JAN 12,87	!IS ******	0.63	!IS ******	!IS ******	!IS ******	0.180	0.0178
JAN 14,87	JAN 13,87	******	******	******	******	******	******	******
JAN 15,87	JAN 14,87	******	******	******	******	******	******	******
JAN 16,87	JAN 15,87	0.10	0.28	<T 0.005	0.050	0.055	1.250	0.1202
JAN 19,87	JAN 18,87	<T 0.04	0.08	<W 0.005	<T 0.010	0.025	0.135	0.0372
JAN 20,87	JAN 19,87	******	******	******	******	******	******	******
JAN 21,87	JAN 20,87	******	******	******	******	******	******	******
JAN 22,87	JAN 21,87	0.28	0.30	<T 0.010	<T 0.015	0.135	0.030	0.0240
JAN 23,87	JAN 22,87	<T 0.02	0.06	<W 0.005	<T 0.005	<T 0.020	<T 0.010	0.0091
JAN 24,87	JAN 23,87	0.26	0.43	<T 0.015	0.035	0.260	0.285	0.0676
JAN 25,87	JAN 24,87	******	******	******	******	******	******	******
JAN 29,87	JAN 28,87	******	******	******	******	******	******	******
JAN 30,87	JAN 29,87	!IS ******	0.32	!IS ******	!IS ******	!IS ******	0.160	0.0724
JAN 31,87	JAN 30,87	<T 0.02	0.06	<W 0.005	<T 0.005	<T 0.010	0.040	0.0331
FEB 1,87	JAN 31,87	<T 0.02	0.14	<T 0.005	<T 0.015	0.110	0.090	0.0224
FEB 2,87	FEB 1,87	0.24	0.21	0.025	0.035	0.065	0.325	0.0741
FEB 3,87	FEB 2,87	******	******	******	******	******	******	******
FEB 4,87	FEB 3,87	0.16	0.18	<T 0.010	0.030	0.070	0.400	0.1175
FEB 5,87	FEB 4,87	******	******	******	******	******	******	******
FEB 6,87	FEB 5,87	0.38	0.38	0.035	<T 0.010	0.210	0.220	0.0724
FEB 7,87	FEB 6,87	0.24	0.41	0.040	<T 0.015	0.180	0.590	0.1230
FEB 8,87	FEB 7,87	0.20	0.31	<T 0.015	0.030	0.065	1.150	0.1000
FEB 9,87	FEB 8,87	<T 0.04	0.15	<T 0.005	<T 0.005	0.045	0.160	0.0646
FEB 10,87	FEB 9,87	******	******	******	******	******	******	******
FEB 11,87	FEB 10,87	******	******	******	******	******	******	******
FEB 13,87	FEB 12,87	0.23	0.20	<T 0.010	<W 0.005	0.120	0.035	0.0214
FEB 14,87	FEB 13,87	******	******	******	******	******	******	******
FEB 24,87	FEB 23,87	******	******	******	******	******	******	******
FEB 25,87	FEB 24,87	******	******	******	******	******	******	******
MAR 1,87	FEB 28,87	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AERODHEM./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-NOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 2,87	MAR 1,87	820	820	820	1740	3	11.8	2	75093	2	1	U 96	G	
MAR 3,87	MAR 2,87	825	850	825	850	2	4.7	2	75094	2	1	U 76	G	
MAR 4,87	MAR 3,87	855	835	855	1600	2	0.7	2	75095	2	1	13	E	N
MAR 9,87	MAR 8,87	815	825	700	825	2	0.1	2	75096	2	1	****	E	N
MAR 10,87	MAR 9,87	830	830	****	****	2	0.1	2	75097	2	1	****	E	N
MAR 16,87	MAR 15,87	825	825	650	825	2	0.4	2	75098	2	1	136		N
MAR 17,87	MAR 16,87	830	835	830	835	2	9.2	2	75099	2	1	67		
MAR 18,87	MAR 17,87	840	830	840	1500	2	0.1	2	75100	2	1	****	E	N
MAR 20,87	MAR 19,87	830	835	2030	600	2	2.2	2	75101	2	1	87		
MAR 21,87	MAR 20,87	840	835	30	835	3	1.5	2	75102	2	1	126		N
MAR 22,87	MAR 21,87	840	815	840	1445	1	1.4	1	75103	2	1	106	C	
MAR 26,87	MAR 25,87	825	830	500	830	1	2.1	1	75105	2	1	99		
MAR 27,87	MAR 26,87	835	830	835	400	1	5.8	1	75106	2	1	103		
MAR 28,87	MAR 27,87	835	805	1810	1820	1	0.1	1	75107	2	1	****	E	N
MAR 29,87	MAR 28,87	810	830	850	1025	1	0.1	1	75108	2	1	****	E	N
MAR 31,87	MAR 30,87	825	825	300	715	1	0.8	2	75109	2	1	122		N
APR 1,87	MAR 31,87	830	825	1825	300	1	6.8	1	75110	2	1	73	C	
APR 2,87	APR 1,87	830	825	2025	2045	2	0.1	1	75111	2	1	****	E	N
APR 3,87	APR 2,87	830	835	1635	640	3	4.1	2	75112	2	1	95		
APR 5,87	APR 4,87	840	835	200	840	1	1.0	1	75113	2	1	92		
APR 6,87	APR 5,87	840	720	840	1500	1	12.0	1	75114	2	1	102		
APR 7,87	APR 6,87	725	835	200	835	1	1.1	1	75115	2	1	82		NH
APR 8,87	APR 7,87	840	810	840	745	3	7.0	1	75116	2	1	88		
APR 9,87	APR 8,87	815	810	1300	1325	1	0.1	1	75117	2	1	****	E	N
APR 18,87	APR 17,87	815	830	****	****	1	0.2	1	75118	2	1	62	E	
APR 22,87	APR 21,87	810	830	****	****	1	0.1	1	75120	2	1	****	EJ	
APR 24,87	APR 23,87	805	835	915	630	1	14.6	1	75121	2	1	100	C	
APR 29,87	APR 28,87	840	815	2100	815	2	2.6	1	75122	2	1	143		NHCN
APR 30,87	APR 29,87	820	805	****	****	3	10.6	1	75123	2	1	103		
MAY 1,87	APR 30,87	805	815	1000	1300	1	3.8	1	75124	2	1	97		
MAY 6,87	MAY 5,87	815	835	1830	835	1	3.4	1	75125	2	1	97		HC
MAY 7,87	MAY 6,87	840	825	100	500	1	0.8	1	75126	2	1	56		HCH
MAY 10,87	MAY 9,87	800	835	815	1300	1	2.2	1	75127	2	1	72		
MAY 12,87	MAY 11,87	815	900	545	730	1	11.8	1	75128	2	1	96		
MAY 15,87	MAY 14,87	755	830	400	730	1	7.2	1	75129	2	1	103		
MAY 16,87	MAY 15,87	835	815	1005	1015	1	0.1	1	75130	2	1	****	E	N
MAY 17,87	MAY 16,87	820	800	1740	1755	1	0.1	1	75131	2	1	****	E	N
MAY 18,87	MAY 17,87	805	800	630	655	1	0.1	1	75132	2	1	****	E	N
MAY 23,87	MAY 22,87	800	835	1905	200	1	3.1	1	75134	2	1	96	A	
MAY 24,87	MAY 23,87	840	840	1315	1440	1	17.8	1	75135	2	1	102		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
MAR 2,87	MAR 1,87	732.0		8.0		******		4.83		******	0.0308		0.50		0.12	
MAR 3,87	MAR 2,87	230.0		28.5		******		4.11		******	0.0945		1.55		0.57	
MAR 4,87	MAR 3,87	6.0		******		******		******		******	******		******		******	
MAR 9,87	MAR 8,87	******		******		******		******		******	******		******		******	
MAR 10,87	MAR 9,87	******		******		******		******		******	******		******		******	
MAR 16,87	MAR 15,87	35.0		9.0		******		5.19		******	0.0238		0.80		0.36	
MAR 17,87	MAR 16,87	400.0		9.0		******		4.73		******	0.0339		0.80		0.18	
MAR 18,87	MAR 17,87	******		******		******		******		******	******		******		******	
MAR 20,87	MAR 19,87	124.0		12.0		******		4.72		******	0.0368		1.10		0.35	
MAR 21,87	MAR 20,87	122.0		11.0		******		4.74		******	0.0357		1.00		0.20	
MAR 22,87	MAR 21,87	96.0		9.3		******		4.69		******	0.0365		0.65		0.16	
MAR 26,87	MAR 25,87	134.0		44.0		******		3.99		******	0.1340		3.70		1.19	
MAR 27,87	MAR 26,87	384.0		49.0		******		3.91		******	0.1550		4.35		0.97	
MAR 28,87	MAR 27,87	******		******		******		******		******	******		******		******	
MAR 29,87	MAR 28,87	******		******		******		******		******	******		******		******	
MAR 31,87	MAR 30,87	63.0		5.0		******		5.15		******	0.0232		0.45		0.09	
APR 1,87	MAR 31,87	319.0		10.0		******		4.63		******	0.0421		0.80		0.23	
APR 2,87	APR 1,87	******		******		******		******		******	******		******		******	
APR 3,87	APR 2,87	250.0		42.0		******		3.98		******	0.1330		2.55		1.18	
APR 5,87	APR 4,87	59.0		31.0		******		4.10		******	0.1030		2.15		0.73	
APR 6,87	APR 5,87	785.0		4.0		******		5.09		******	0.0243		0.30		0.08	
APR 7,87	APR 6,87	58.0		3.0		******	UG	5.70		******	0.0171		0.45		0.06	
APR 8,87	APR 7,87	395.0	LG	2.0		******	UG	5.52		******	0.0190	LG	0.15	<T	0.04	
APR 9,87	APR 8,87	******		******		******		******		******	******		******		******	
APR 18,87	APR 17,87	8.0		******		******		******		******	******		******		******	
APR 22,87	APR 21,87	******		******		******		******		******	******		******		******	
APR 24,87	APR 23,87	938.0		52.0		******		3.94		******	0.1370		5.05		0.83	
APR 29,87	APR 28,87	240.0		10.0		******	UG	5.82		******	0.0322		1.00		0.14	
APR 30,87	APR 29,87	700.0		12.5		******		4.66		******	0.0393		1.00		0.35	
MAY 1,87	APR 30,87	237.0		16.5		******	UG	7.06		******	0.0216		2.40		0.16	
MAY 6,87	MAY 5,87	213.0		5.0		******		5.63		******	0.0158		0.60		0.09	
MAY 7,87	MAY 6,87	29.0		7.0		******	UG	7.62		******	0.0300		0.75		0.19	
MAY 10,87	MAY 9,87	102.0		33.5		******	UG	7.06		******	0.0330		4.95		1.17	
MAY 12,87	MAY 11,87	729.0		70.5		******		4.08		******	0.1340	UG	10.60		1.59	
MAY 15,87	MAY 14,87	478.0		41.0		******		4.05		******	0.0985		3.70		0.70	
MAY 16,87	MAY 15,87	******		******		******		******		******	******		******		******	
MAY 17,87	MAY 16,87	******		******		******		******		******	******		******		******	
MAY 18,87	MAY 17,87	******		******		******		******		******	******		******		******	
MAY 23,87	MAY 22,87	191.0		87.6		******		3.74		******	0.2270	UG	10.50		1.33	
MAY 24,87	MAY 23,87	1166.0		48.1		******		4.05		******	0.1300		5.10		0.90	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 2,87	MAR 1,87	<T 0.10	0.05	<T 0.020	<T 0.005	<T 0.005	<T 0.010	0.0148
MAR 3,87	MAR 2,87	<T 0.06	0.11	<T 0.010	0.025	0.075	0.050	0.0776
MAR 4,87	MAR 3,87	******	******	******	******	******	******	******
MAR 9,87	MAR 8,87	******	******	******	******	******	******	******
MAR 10,87	MAR 9,87	******	******	******	******	******	******	******
MAR 16,87	MAR 15,87	!IS ******	0.25	!IS ******	!IS ******	!IS ******	!IS ******	0.0065
MAR 17,87	MAR 16,87	<T 0.10	0.07	<T 0.005	<T 0.020	0.045	0.080	0.0186
MAR 18,87	MAR 17,87	******	******	******	******	******	******	******
MAR 20,87	MAR 19,87	0.16	0.25	<T 0.010	<T 0.025	0.130	0.260	0.0191
MAR 21,87	MAR 20,87	<T 0.06	0.40	<T 0.010	0.050	0.155	0.200	0.0182
MAR 22,87	MAR 21,87	<T 0.06	0.11	<T 0.010	<T 0.015	0.035	0.100	0.0204
MAR 26,87	MAR 25,87	0.44	0.28	0.065	0.045	0.115	0.395	0.1023
MAR 27,87	MAR 26,87	0.12	0.24	<T 0.015	<T 0.010	0.025	0.420	0.1230
MAR 28,87	MAR 27,87	******	******	******	******	******	******	******
MAR 29,87	MAR 28,87	******	******	******	******	******	******	******
MAR 31,87	MAR 30,87	<T 0.04	0.21	<T 0.010	<T 0.005	0.125	0.035	0.0071
APR 1,87	MAR 31,87	<T 0.04	<W 0.01	<T 0.010	<T 0.005	<T 0.015	0.070	0.0234
APR 2,87	APR 1,87	******	******	******	******	******	******	******
APR 3,87	APR 2,87	<T 0.04	0.10	<T 0.010	<T 0.015	<T 0.010	0.370	0.1047
APR 5,87	APR 4,87	0.14	0.34	0.035	0.030	0.130	<T 0.015	0.0794
APR 6,87	APR 5,87	<T 0.02	<W 0.01	<T 0.005	<T 0.005	<T 0.005	<T 0.005	0.0081
APR 7,87	APR 6,87	<T 0.04	0.09	<T 0.005	0.025	0.125	0.045	UG 0.0020
APR 8,87	APR 7,87	<W 0.02	<W 0.01	<W 0.005	<T 0.005	<T 0.005	0.055	UG 0.0030
APR 9,87	APR 8,87	******	******	******	******	******	******	******
APR 18,87	APR 17,87	******	******	******	******	******	******	******
APR 22,87	APR 21,87	******	******	******	******	******	******	******
APR 24,87	APR 23,87	0.32	0.18	0.050	<T 0.015	0.050	0.565	0.1148
APR 29,87	APR 28,87	<T 0.04	0.12	<T 0.010	<T 0.010	0.095	0.100	UG 0.0015
APR 30,87	APR 29,87	<T 0.08	0.10	<T 0.005	<T 0.005	0.050	0.180	0.0219
MAY 1,87	APR 30,87	1.32	0.14	0.090	<T 0.020	0.085	0.710	UG 0.0001
MAY 6,87	MAY 5,87	0.34	0.07	0.025	<T 0.015	0.030	0.050	0.0023
MAY 7,87	MAY 6,87	0.30	0.06	<T 0.025	<W 0.005	0.030	0.115	UG 0.0000
MAY 10,87	MAY 9,87	1.70	0.37	0.385	UG 0.300	0.140	1.540	UG 0.0001
MAY 12,87	MAY 11,87	UG 2.26	0.39	0.360	0.145	0.075	1.850	0.0832
MAY 15,87	MAY 14,87	0.26	0.15	0.045	<T 0.005	0.050	0.415	0.0891
MAY 16,87	MAY 15,87	******	******	******	******	******	******	******
MAY 17,87	MAY 16,87	******	******	******	******	******	******	******
MAY 18,87	MAY 17,87	******	******	******	******	******	******	******
MAY 23,87	MAY 22,87	0.46	0.46	0.075	0.130	UG 0.495	1.050	0.1820
MAY 24,87	MAY 23,87	0.18	0.21	0.025	0.045	D 0.145	0.795	0.0891

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 25,87	MAY 24,87	845	820	1905	200	1	0.2	1	75137	2	1	****	E	N
MAY 27,87	MAY 26,87	815	825	2115	200	1	0.4	1	75138	2	1	85		
MAY 28,87	MAY 27,87	830	825	1610	730	1	0.7	1	75139	2	1	86		
MAY 29,87	MAY 28,87	835	825	1800	2000	1	25.0	1	75140	2	1	106	C	
MAY 30,87	MAY 29,87	835	830	1825	2300	1	0.7	1	75141	2	1	73		
MAY 31,87	MAY 30,87	835	825	1810	1813	1	0.1	1	75142	2	1	****	E	N
JUN 1,87	MAY 31,87	830	850	1350	1500	1	42.2	1	75143	2	1	103		
JUN 2,87	JUN 1,87	900	805	1010	1030	1	0.1	1	75144	2	1	****	E	N
JUN 3,87	JUN 2,87	810	825	1305	1515	1	4.6	1	75145	2	1	99		
JUN 4,87	JUN 3,87	835	815	1550	300	1	3.2	1	75146	2	1	101		
JUN 5,87	JUN 4,87	825	825	1400	2100	1	2.4	1	75147	2	1	83		
JUN 6,87	JUN 5,87	835	850	2130	2215	1	0.3	1	75148	2	1	****	E	N
JUN 8,87	JUN 7,87	830	840	615	755	1	2.8	1	75149	2	1	102		
JUN 9,87	JUN 8,87	845	850	1920	500	1	32.8	1	75150	2	1	U 103	EG	
JUL 3,87	JUL 2,87	1930	825	****	830	1	2.1	1	75165	2	1	107	C	X
JUL 4,87	JUL 3,87	830	845	125	220	1	7.2	1	75166	2	1	94	C	
JUL 5,87	JUL 4,87	845	815	1050	1115	1	2.2	1	75167	2	1	U 131	EGC	
JUL 9,87	JUL 8,87	800	805	1800	1805	1	0.1	1	75168	2	1	****	E	N
JUL 10,87	JUL 9,87	855	820	1620	1710	1	28.8	1	75169	2	1	U 107	EGC	
JUL 11,87	JUL 10,87	845	835	2015	2110	1	6.6	1	75170	2	1	98	C	
JUL 12,87	JUL 11,87	840	835	310	415	1	9.6	1	75171	2	1	102	C	
JUL 14,87	JUL 12,87	840	755	1820	1830	1	0.6	1	75172	2	1	U 72	EGB	Y2
JUL 15,87	JUL 14,87	800	800	1500	1620	1	10.6	1	75174	2	1	U 97	JC	
JUL 18,87	JUL 15,87	815	830	****	****	1	0.1	1	75175	2	1	****	JE	Y3
JUL 19,87	JUL 18,87	835	830	1745	2100	1	10.2	1	75176	2	1	U 101	JB	
JUL 21,87	JUL 20,87	800	1000	800	845	1	15.2	1	75177	2	1	U 103	JC	
JUL 25,87	JUL 21,87	1000	900	1700	1800	1	27.7	1	75178	2	1	U 104	JC	Y4
JUL 26,87	JUL 25,87	905	845	230	330	1	22.3	1	75179	2	1	U 105	JC	
JUL 27,87	JUL 26,87	845	850	1030	1100	1	5.2	1	75180	2	1	U 86	JC	
JUL 30,87	JUL 27,87	850	835	****	****	1	0.1	1	75181	2	1	****	E	NY3
AUG 3,87	JUL 30,87	840	840	2205	800	1	27.8	1	75182	2	1	103	C	Y4
AUG 4,87	AUG 3,87	845	840	****	****	1	0.1	1	75183	2	1	****	E	N
AUG 5,87	AUG 4,87	845	840	****	****	1	0.1	1	75184	2	1	****	E	N
AUG 8,87	AUG 5,87	840	850	1615	1700	1	8.2	1	75185	2	1	102	C	Y3
AUG 10,87	AUG 8,87	850	925	2135	200	1	6.0	1	75186	2	1	103	C	Y2
AUG 11,87	AUG 10,87	930	930	930	1400	1	4.8	1	75187	2	1	****	EGC	
AUG 15,87	AUG 11,87	900	845	1145	1500	1	0.4	1	75189	2	1	117		Y4
AUG 16,87	AUG 15,87	845	930	****	****	1	0.1	1	75190	2	1	****	E	N
AUG 18,87	AUG 16,87	950	840	2135	2300	1	0.1	1	75191	2	1	****	E	NY2
AUG 20,87	AUG 19,87	845	850	1650	1710	1	0.2	1	75192	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
MAY 25,87	MAY 24,87	******		******		******		******		******		******		******		******	
MAY 27,87	MAY 26,87	22.0	!IS	******		******		3.83		******		0.1910	!IS	******	!IS	******	
MAY 28,87	MAY 27,87	39.0		> 100.0		******		3.47		******		0.4150	!CR	******	!CR	******	
MAY 29,87	MAY 28,87	1712.0		17.1		******		4.55		******		0.0496		2.05		0.14	
MAY 30,87	MAY 29,87	33.0		38.4		******		4.18		******		0.0997		3.75		0.83	
MAY 31,87	MAY 30,87	******		******		******		******		******		******		******		******	
JUN 1,87	MAY 31,87	2790.0		26.7		******		4.32		******		0.0739		3.10		0.27	
JUN 2,87	JUN 1,87	******		******		******		******		******		******		******		******	
JUN 3,87	JUN 2,87	292.0		22.8		******		4.38		******		0.0641		1.60		0.35	
JUN 4,87	JUN 3,87	208.0		25.6		******		4.31		******		0.0757		2.15		0.42	
JUN 5,87	JUN 4,87	128.0		50.7		******		4.01		******		0.1380		3.95		1.20	
JUN 6,87	JUN 5,87	******		******		******		******		******		******		******		******	
JUN 8,87	JUN 7,87	184.0		49.1		******		4.06		******		0.1240		5.90		0.75	
JUN 9,87	JUN 8,87	2173.0		******		******		******		******		******		******		******	
JUL 3,87	JUL 2,87	145.0		******		******		******		******		******		******		******	
JUL 4,87	JUL 3,87	434.0		16.4		******		4.50		******		0.0483		1.60		0.25	
JUL 5,87	JUL 4,87	185.0		******		******		******		******		******		******		******	
JUL 9,87	JUL 8,87	******		******		******		******		******		******		******		******	
JUL 10,87	JUL 9,87	1982.0		******		******		******		******		******		******		******	
JUL 11,87	JUL 10,87	416.0		17.4		******		4.53		******		0.0466		1.70		0.40	
JUL 12,87	JUL 11,87	631.0		30.6		******		4.12		******		0.0851		3.15		0.40	
JUL 14,87	JUL 12,87	28.0		******		******		******		******		******		******		******	
JUL 15,87	JUL 14,87	661.0		55.5		******		3.89		******		0.1540		5.90		0.60	
JUL 18,87	JUL 15,87	******		******		******		******		******		******		******		******	
JUL 19,87	JUL 18,87	663.0		17.4		******		4.52		******		0.0476		2.00		0.20	
JUL 21,87	JUL 20,87	1008.0		14.1		******		4.60		******		0.0441		1.60		0.15	
JUL 25,87	JUL 21,87	1856.0		43.2		******		4.06		******		0.1120		5.45		0.35	
JUL 26,87	JUL 25,87	1505.0	!IS	******		******	UG	7.81		******		0.0112	!IS	******	!IS	******	
JUL 27,87	JUL 26,87	289.0		7.1		******		5.12		******		0.0261		0.70		0.10	
JUL 30,87	JUL 27,87	******		******		******		******		******		******		******		******	
AUG 3,87	JUL 30,87	1837.0		13.6		******		4.56		******		0.0441		1.30		0.15	
AUG 4,87	AUG 3,87	******		******		******		******		******		******		******		******	
AUG 5,87	AUG 4,87	******		******		******		******		******		******		******		******	
AUG 8,87	AUG 5,87	540.0		37.1		******		4.11		******		0.1030		4.00		0.50	
AUG 10,87	AUG 8,87	397.0		16.0		******		4.45		******		0.0519		1.55		0.10	
AUG 11,87	AUG 10,87	******		******		******		******		******		******		******		******	
AUG 15,87	AUG 11,87	30.0		> 100.0		******		3.36		******	UG	0.5150	UG	19.90	UG	11.50	
AUG 16,87	AUG 15,87	******		******		******		******		******		******		******		******	
AUG 18,87	AUG 16,87	******		******		******		******		******		******		******		******	
AUG 20,87	AUG 19,87	******		******		******		******		******		******		******		******	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 25,87	MAY 24,87	******	******	******	******	******	******	******
MAY 27,87	MAY 26,87	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	1.500	0.1479
MAY 28,87	MAY 27,87	!IS ******	0.41	!IS ******	!IS ******	!IS ******	3.500	0.3388
MAY 29,87	MAY 28,87	<T 0.10	<W 0.01	<T 0.010	<T 0.020	<T 0.020	0.250	0.0282
MAY 30,87	MAY 29,87	0.62	0.38	0.100	0.160	UG 0.220	0.420	0.0661
MAY 31,87	MAY 30,87	******	******	******	******	******	******	******
JUN 1,87	MAY 31,87	0.14	<W 0.01	<T 0.010	<T 0.015	<T 0.015	0.385	0.0479
JUN 2,87	JUN 1,87	******	******	******	******	******	******	******
JUN 3,87	JUN 2,87	<T 0.10	<W 0.01	<T 0.010	<T 0.020	<T 0.005	0.135	0.0417
JUN 4,87	JUN 3,87	0.14	0.06	<T 0.020	0.065	0.045	0.170	0.0490
JUN 5,87	JUN 4,87	0.32	0.17	0.050	0.025	<T 0.020	0.635	0.0977
JUN 6,87	JUN 5,87	******	******	******	******	******	******	******
JUN 8,87	JUN 7,87	0.44	0.14	0.065	0.030	0.030	0.805	0.0871
JUN 9,87	JUN 8,87	******	******	******	******	******	******	******
JUL 3,87	JUL 2,87	******	******	******	******	******	******	******
JUL 4,87	JUL 3,87	<T 0.10	<W 0.01	<T 0.010	<W 0.005	<T 0.005	0.190	0.0316
JUL 5,87	JUL 4,87	******	******	******	******	******	******	******
JUL 9,87	JUL 8,87	******	******	******	******	******	******	******
JUL 10,87	JUL 9,87	******	******	******	******	******	******	******
JUL 11,87	JUL 10,87	0.18	0.10	<T 0.010	<T 0.005	<T 0.010	0.415	0.0295
JUL 12,87	JUL 11,87	0.18	0.90	<T 0.015	<W 0.005	0.035	0.400	0.0759
JUL 14,87	JUL 12,87	******	******	******	******	******	******	******
JUL 15,87	JUL 14,87	<T 0.06	0.10	<T 0.020	0.045	<T 0.020	0.420	0.1288
JUL 18,87	JUL 15,87	******	******	******	******	******	******	******
JUL 19,87	JUL 18,87	<T 0.10	0.10	0.025	0.040	<T 0.010	0.240	0.0302
JUL 21,87	JUL 20,87	<T 0.04	<T 0.05	<T 0.005	0.035	<T 0.010	0.210	0.0251
JUL 25,87	JUL 21,87	0.22	0.10	0.035	0.050	0.035	0.600	0.0871
JUL 26,87	JUL 25,87	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<T 0.005	UG 0.0000
JUL 27,87	JUL 26,87	<T 0.06	<T 0.05	<W 0.005	0.030	<T 0.015	0.185	0.0076
JUL 30,87	JUL 27,87	******	******	******	******	******	******	******
AUG 3,87	JUL 30,87	<T 0.02	<W 0.01	<T 0.005	<T 0.025	<T 0.005	0.090	0.0275
AUG 4,87	AUG 3,87	******	******	******	******	******	******	******
AUG 5,87	AUG 4,87	******	******	******	******	******	******	******
AUG 8,87	AUG 5,87	0.20	0.10	<T 0.020	0.035	<T 0.020	0.485	0.0776
AUG 10,87	AUG 8,87	<T 0.02	<W 0.01	<W 0.005	<T 0.025	<T 0.015	<T 0.020	0.0355
AUG 11,87	AUG 10,87	******	******	******	******	******	******	******
AUG 15,87	AUG 11,87	!IS ******	0.55	!IS ******	!IS ******	!IS ******	0.495	0.4365
AUG 16,87	AUG 15,87	******	******	******	******	******	******	******
AUG 18,87	AUG 16,87	******	******	******	******	******	******	******
AUG 20,87	AUG 19,87	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 21,87	AUG 20,87	855	825	1835	1950	1	8.2	1	75193	2	1	102		HCM
AUG 22,87	AUG 21,87	830	820	500	600	1	0.1	1	75194	2	1	****	E	N
AUG 23,87	AUG 22,87	825	835	1550	1750	1	8.4	1	75195	2	1	101		HM
AUG 26,87	AUG 25,87	825	905	1250	1255	1	0.1	1	75196	2	1	****	E	N
AUG 29,87	AUG 28,87	820	820	500	820	1	5.4	1	75197	2	1	102		
AUG 30,87	AUG 29,87	825	830	825	1245	1	1.0	1	75198	2	1	39		N
SEP 1,87	AUG 31,87	835	745	1945	2200	1	7.6	1	75199	2	1	102		
SEP 2,87	SEP 1,87	750	825	2130	2200	1	0.3	1	75200	2	1	****	E	N
SEP 7,87	SEP 6,87	830	820	510	820	1	0.5	1	75201	2	1	87		
SEP 8,87	SEP 7,87	825	845	820	1045	1	0.2	1	75202	2	1	****	E	N
SEP 9,87	SEP 8,87	850	835	1815	500	1	16.8	1	75204	2	1	67		
SEP 10,87	SEP 9,87	840	815	840	815	1	1.2	1	75205	2	1	66		
SEP 11,87	SEP 10,87	825	815	825	1330	1	0.6	1	75206	2	1	70		
SEP 12,87	SEP 11,87	815	825	530	825	1	4.4	1	75207	2	1	108		
SEP 13,87	SEP 12,87	830	840	830	840	1	31.4	1	75208	2	1	80		
SEP 14,87	SEP 13,87	850	825	850	200	1	22.8	1	75210	2	1	27		NM
SEP 17,87	SEP 16,87	825	820	1805	1815	1	0.1	1	75211	2	1	****	E	
SEP 20,87	SEP 19,87	825	810	620	****	1	0.4	1	75212	2	1	89		
SEP 21,87	SEP 20,87	815	830	815	600	1	5.2	1	75213	2	1	102		M
SEP 22,87	SEP 21,87	835	845	1005	1430	1	0.2	1	75214	2	1	****	E	
SEP 24,87	SEP 23,87	825	830	2135	200	1	4.4	1	75215	2	1	93	A	
SEP 26,87	SEP 25,87	835	820	625	745	1	4.2	1	75216	2	1	91		
SEP 27,87	SEP 26,87	830	830	1145	1515	1	0.8	1	75217	2	1	58		
SEP 29,87	SEP 28,87	825	830	1325	1330	1	0.1	1	75218	2	1	****	E	
SEP 30,87	SEP 29,87	840	820	540	730	1	2.9	1	75219	2	1	97		
OCT 1,87	SEP 30,87	830	830	1600	****	1	10.2	1	75220	2	1	98		
OCT 2,87	OCT 1,87	840	835	1015	1400	1	0.2	1	75221	2	1	****	E	N
OCT 3,87	OCT 2,87	845	830	2055	600	1	4.6	1	75222	2	1	96		X
OCT 4,87	OCT 3,87	835	835	1740	835	1	13.0	1	75223	2	1	97	C	X
OCT 5,87	OCT 4,87	840	755	****	****	3	****	2	75224	2	1	****		X
OCT 8,87	OCT 7,87	810	810	825	915	1	0.1	1	75226	2	1	****	E	N
OCT 9,87	OCT 8,87	815	840	1810	2100	1	3.8	1	75227	2	1	84		HCM
OCT 18,87	OCT 17,87	830	750	210	215	1	0.1	1	75228	2	1	****	E	N
OCT 21,87	OCT 20,87	830	820	1815	600	1	15.0	1	75229	2	1	101		
OCT 22,87	OCT 21,87	830	850	1240	2000	1	1.2	1	75230	2	1	59		H
OCT 23,87	OCT 22,87	855	840	400	630	3	1.2	2	75231	2	1	97		
OCT 24,87	OCT 23,87	855	845	1300	1500	1	****	1	75232	2	1	****		
OCT 25,87	OCT 24,87	855	830	400	600	1	11.8	1	75233	2	1	100		M
OCT 26,87	OCT 25,87	840	800	940	1430	3	0.2	1	75234	2	1	****	E	N
OCT 28,87	OCT 27,87	830	835	1835	835	1	33.8	1	75235	2	1	104		HCM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 21,87	AUG 20,87	537.0	6.5	******	UG 7.24	******	0.0148	0.90	0.19
AUG 22,87	AUG 21,87	******	******	******	******	******	******	******	******
AUG 23,87	AUG 22,87	549.0	14.0	******	4.60	******	0.0478	1.80	0.15
AUG 26,87	AUG 25,87	******	******	******	******	******	******	******	******
AUG 29,87	AUG 28,87	356.0	8.5	******	4.89	******	0.0329	0.75	0.17
AUG 30,87	AUG 29,87	25.0	5.0	******	5.27	******	0.0221	0.50	0.10
SEP 1,87	AUG 31,87	499.0	29.0	******	4.21	******	0.0856	2.95	0.29
SEP 2,87	SEP 1,87	******	******	******	******	******	******	******	******
SEP 7,87	SEP 6,87	28.0	35.0	******	4.23	******	0.0875	4.30	0.75
SEP 8,87	SEP 7,87	******	******	******	******	******	******	******	******
SEP 9,87	SEP 8,87	724.0	7.5	******	!IS ******	******	!IS ******	0.60	0.13
SEP 10,87	SEP 9,87	51.0	23.5	******	4.50	******	0.0568	2.55	0.67
SEP 11,87	SEP 10,87	27.0	29.5	******	4.21	******	0.0852	3.50	0.30
SEP 12,87	SEP 11,87	305.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
SEP 13,87	SEP 12,87	1630.0	21.0	******	4.31	******	0.0645	1.95	0.27
SEP 14,87	SEP 13,87	409.0	LG 3.0	******	5.21	******	0.0201	LG 0.30	<T 0.04
SEP 17,87	SEP 16,87	******	******	******	******	******	******	******	******
SEP 20,87	SEP 19,87	23.0	23.0	******	4.27	******	0.0714	1.80	0.33
SEP 21,87	SEP 20,87	343.0	4.5	******	5.11	******	0.0227	LG 0.35	0.07
SEP 22,87	SEP 21,87	******	******	******	******	******	******	******	******
SEP 24,87	SEP 23,87	265.0	11.0	******	4.82	******	0.0324	1.60	0.21
SEP 26,87	SEP 25,87	247.0	12.0	******	UG 7.06	******	0.0133	2.05	0.16
SEP 27,87	SEP 26,87	30.0	6.0	******	4.87	******	0.0292	0.95	0.10
SEP 29,87	SEP 28,87	******	******	******	******	******	******	******	******
SEP 30,87	SEP 29,87	182.0	!CR ******	******	5.66	******	0.0171	!CR ******	<W 0.01
OCT 1,87	SEP 30,87	646.0	15.0	******	4.59	******	0.0471	1.70	0.30
OCT 2,87	OCT 1,87	******	******	******	******	******	******	******	******
OCT 3,87	OCT 2,87	284.0	******	******	******	******	******	******	******
OCT 4,87	OCT 3,87	813.0	******	******	******	******	******	******	******
OCT 5,87	OCT 4,87	2251.0	******	******	******	******	******	******	******
OCT 8,87	OCT 7,87	******	******	******	******	******	******	******	******
OCT 9,87	OCT 8,87	206.0	LG 3.0	******	5.81	******	0.0195	0.85	0.15
OCT 18,87	OCT 17,87	******	******	******	******	******	******	******	******
OCT 21,87	OCT 20,87	972.0	40.0	******	4.05	******	0.1240	2.80	0.88
OCT 22,87	OCT 21,87	46.0	13.0	******	5.81	******	0.0211	2.80	0.42
OCT 23,87	OCT 22,87	75.0	38.0	******	4.05	******	0.1170	1.25	1.29
OCT 24,87	OCT 23,87	25.0	86.0	******	3.94	******	0.1810	3.80	2.42
OCT 25,87	OCT 24,87	760.0	52.0	******	4.08	******	0.1310	3.65	0.87
OCT 26,87	OCT 25,87	******	******	******	******	******	******	******	******
OCT 28,87	OCT 27,87	2271.0	3.5	******	4.99	******	0.0264	0.55	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 21,87	AUG 20,87	0.54	<W 0.01	0.055	0.030	<T 0.015	<W 0.005	UG 0.0001
AUG 22,87	AUG 21,87	******	******	******	******	******	******	******
AUG 23,87	AUG 22,87	0.30	<T 0.02	<T 0.020	<T 0.020	0.030	0.220	0.0251
AUG 26,87	AUG 25,87	******	******	******	******	******	******	******
AUG 29,87	AUG 28,87	0.12	<W 0.01	<T 0.010	0.025	0.055	0.060	0.0129
AUG 30,87	AUG 29,87	0.10	0.10	<T 0.010	0.030	0.110	<T 0.015	0.0054
SEP 1,87	AUG 31,87	0.12	<W 0.01	<T 0.010	<T 0.020	<T 0.005	0.255	0.0617
SEP 2,87	SEP 1,87	******	******	******	******	******	******	******
SEP 7,87	SEP 6,87	!IS ******	0.12	!IS ******	!IS ******	!IS ******	!IS ******	0.0589
SEP 8,87	SEP 7,87	******	******	******	******	******	******	******
SEP 9,87	SEP 8,87	!IS ******	<T 0.03	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******
SEP 10,87	SEP 9,87	0.24	0.09	<T 0.020	0.030	0.040	0.825	0.0316
SEP 11,87	SEP 10,87	!IS ******	0.06	!IS ******	!IS ******	!IS ******	0.400	0.0617
SEP 12,87	SEP 11,87	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******
SEP 13,87	SEP 12,87	!IS ******	0.06	!IS ******	!IS ******	!IS ******	!IS ******	0.0490
SEP 14,87	SEP 13,87	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	<T 0.010	0.0062
SEP 17,87	SEP 16,87	******	******	******	******	******	******	******
SEP 20,87	SEP 19,87	!IS ******	0.15	!IS ******	!IS ******	!IS ******	<W 0.005	0.0537
SEP 21,87	SEP 20,87	<W 0.02	<T 0.02	<W 0.005	<T 0.005	0.030	<T 0.020	0.0078
SEP 22,87	SEP 21,87	******	******	******	******	******	******	******
SEP 24,87	SEP 23,87	0.20	<T 0.04	<T 0.010	0.045	<T 0.015	0.275	0.0151
SEP 26,87	SEP 25,87	1.38	0.09	0.105	0.055	0.035	0.345	UG 0.0001
SEP 27,87	SEP 26,87	!IS ******	<T 0.04	!IS ******	!IS ******	!IS ******	0.070	0.0135
SEP 29,87	SEP 28,87	******	******	******	******	******	******	******
SEP 30,87	SEP 29,87	0.22	0.07	0.035	0.025	0.045	0.400	0.0022
OCT 1,87	SEP 30,87	<T 0.06	<T 0.04	<T 0.015	<T 0.020	<T 0.010	0.375	0.0257
OCT 2,87	OCT 1,87	******	******	******	******	******	******	******
OCT 3,87	OCT 2,87	******	******	******	******	******	******	******
OCT 4,87	OCT 3,87	******	******	******	******	******	******	******
OCT 5,87	OCT 4,87	******	******	******	******	******	******	******
OCT 8,87	OCT 7,87	******	******	******	******	******	******	******
OCT 9,87	OCT 8,87	0.18	0.11	<T 0.020	<W 0.005	<T 0.015	0.185	0.0015
OCT 18,87	OCT 17,87	******	******	******	******	******	******	******
OCT 21,87	OCT 20,87	0.14	0.11	<T 0.010	<T 0.020	<T 0.025	0.315	0.0891
OCT 22,87	OCT 21,87	0.28	0.15	<T 0.020	0.035	0.035	1.150	0.0015
OCT 23,87	OCT 22,87	0.34	0.17	0.030	<T 0.015	0.040	0.115	0.0891
OCT 24,87	OCT 23,87	0.74	0.33	0.120	0.065	0.045	!IS ******	0.1148
OCT 25,87	OCT 24,87	<T 0.08	0.08	<T 0.015	0.025	0.030	0.280	0.0832
OCT 26,87	OCT 25,87	******	******	******	******	******	******	******
OCT 28,87	OCT 27,87	<W 0.02	<T 0.01	<W 0.005	<W 0.005	<T 0.010	<T 0.010	0.0102

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 29,87	OCT 28,87	845	835	845	2100	1	6.3	1	75237	2	1		62		
OCT 30,87	OCT 29,87	845	830	300	305	1	0.1	1	75238	2	1		****	E	N
OCT 31,87	OCT 30,87	835	715	1850	100	1	2.6	1	75239	2	1		100	E	
NOV 4,87	NOV 3,87	825	830	940	200	1	2.0	1	75241	2	1		83	A	
NOV 5,87	NOV 4,87	840	825	530	615	1	4.5	1	75242	2	1		99		
NOV 6,87	NOV 5,87	835	835	300	810	2	10.3	2	75243	2	1	U	54	I	HCM
NOV 7,87	NOV 6,87	840	825	900	1400	2	0.2	2	75244	2	1		****	E	N
NOV 8,87	NOV 7,87	830	830	930	1300	2	0.1	2	75245	2	1		****	E	N
NOV 9,87	NOV 8,87	835	810	2100	715	1	12.8	1	75246	2	1		100		C
NOV 11,87	NOV 10,87	825	825	900	1130	2	0.1	2	75247	2	1		****	E	N
NOV 13,87	NOV 12,87	820	825	600	700	2	0.1	2	75248	2	1		****	E	N
NOV 14,87	NOV 13,87	835	830	1330	1415	1	0.1	1	75249	2	1		****	E	N
NOV 15,87	NOV 14,87	835	825	1345	1630	1	0.6	1	75250	2	1		****	E	N
NOV 18,87	NOV 17,87	830	830	2235	400	1	13.8	1	75251	2	1		98		
NOV 19,87	NOV 18,87	840	830	1100	1215	1	1.8	1	75252	2	1		77		
NOV 21,87	NOV 20,87	815	820	1455	2200	3	5.8	2	75253	2	1		36		N
NOV 22,87	NOV 21,87	830	820	1030	820	2	4.3	2	75254	2	1		14		NM
NOV 23,87	NOV 22,87	825	830	820	1030	2	0.1	2	75255	2	1		****	E	N
NOV 24,87	NOV 23,87	835	840	1930	200	1	****	1	75256	2	1		****		
NOV 25,87	NOV 24,87	845	825	845	1400	1	0.2	1	75257	2	1		****	E	N
NOV 26,87	NOV 25,87	890	810	1815	810	3	29.0	2	75258	2	1		107		
NOV 27,87	NOV 26,87	815	825	815	1700	3	5.6	2	75259	2	1		83		
NOV 30,87	NOV 29,87	830	830	1815	830	1	18.0	1	75260	2	1		100		
DEC 1,87	NOV 30,87	835	840	835	1150	1	2.4	1	75261	2	1		78		
DEC 2,87	DEC 1,87	840	855	2130	855	3	1.6	2	75263	2	1	U	17	G	X
DEC 3,87	DEC 2,87	900	825	1000	1600	2	0.3	2	75264	2	1		****	E	N
DEC 4,87	DEC 3,87	830	825	845	915	2	0.1	2	75265	2	1		****	E	N
DEC 5,87	DEC 4,87	835	845	910	1700	2	1.8	2	75266	2	1		78		X
DEC 6,87	DEC 5,87	850	820	1815	2300	2	2.2	2	75267	2	1		26		XN
DEC 7,87	DEC 6,87	825	835	1100	1330	2	0.1	2	75268	2	1		****	E	N
DEC 8,87	DEC 7,87	840	835	840	1130	2	0.1	2	75269	2	1		****	E	N
DEC 9,87	DEC 8,87	845	840	1600	2300	1	0.3	1	75270	2	1		129		N
DEC 10,87	DEC 9,87	845	830	1455	1745	1	6.4	1	75271	2	1		100		
DEC 11,87	DEC 10,87	840	835	1020	1145	1	0.1	1	75272	2	1		****	E	N
DEC 13,87	DEC 12,87	825	850	1750	300	1	1.2	1	75273	2	1		78		
DEC 14,87	DEC 13,87	855	830	910	2100	2	0.8	2	75274	2	1		37		N
DEC 16,87	DEC 15,87	820	815	1450	820	2	8.5	2	75275	2	1		72		
DEC 17,87	DEC 16,87	825	825	825	1500	2	7.7	2	75276	2	1		66		
DEC 18,87	DEC 17,87	830	805	1110	1245	2	0.1	2	75277	2	1		****	E	N
DEC 19,87	DEC 18,87	810	840	500	840	2	1.1	2	75278	2	1		49		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
OCT 29,87	OCT 28,87	251.0	11.0	******		4.66	******	0.0425		1.40		0.18	
OCT 30,87	OCT 29,87	******	******	******		******	******	******		******		******	
OCT 31,87	OCT 30,87	167.0	!RE ******	******	!RE	******	******	******	!RE	******	!RE	******	!RE
NOV 4,87	NOV 3,87	107.0	64.0	******	UG	7.32	******	0.0293		UG 9.50		1.16	
NOV 5,87	NOV 4,87	287.0	27.0	******		4.34	******	0.0768		3.35		0.72	
NOV 6,87	NOV 5,87	357.0	3.0	******	UG	6.60	******	0.0183		0.85		0.14	
NOV 7,87	NOV 6,87	******	******	******		******	******	******		******		******	
NOV 8,87	NOV 7,87	******	******	******		******	******	******		******		******	
NOV 9,87	NOV 8,87	822.0	4.5	******		4.08	******	0.1290		2.85		1.03	
NOV 11,87	NOV 10,87	******	******	******		******	******	******		******		******	
NOV 13,87	NOV 12,87	******	******	******		******	******	******		******		******	
NOV 14,87	NOV 13,87	******	******	******		******	******	******		******		******	
NOV 15,87	NOV 14,87	******	******	******		******	******	******		******		******	
NOV 18,87	NOV 17,87	870.0	9.0	******		4.84	******	0.0343		0.80		0.17	
NOV 19,87	NOV 18,87	89.0	26.0	******		4.43	******	0.0659		2.50		0.62	
NOV 21,87	NOV 20,87	134.0	19.0	******		4.84	******	0.0403		1.60		0.99	
NOV 22,87	NOV 21,87	40.0	8.5	******	UG	7.35	******	0.0158		0.55		0.14	
NOV 23,87	NOV 22,87	******	******	******		******	******	******		******		******	
NOV 24,87	NOV 23,87	41.0	94.0	******		3.77	******	0.2260	UG	9.35		1.34	
NOV 25,87	NOV 24,87	******	******	******		******	******	******		******		******	
NOV 26,87	NOV 25,87	1997.0	27.0	******		4.19	******	0.0887		1.65		0.68	
NOV 27,87	NOV 26,87	300.0	18.0	******		4.32	******	0.0641		1.40		0.30	
NOV 30,87	NOV 29,87	1165.0	5.0	******		5.03	******	0.0216		0.30		0.06	
DEC 1,87	NOV 30,87	120.0	12.0	******		4.48	******	0.0460		0.93		0.22	
DEC 2,87	DEC 1,87	18.0	******	******		******	******	******		******		******	
DEC 3,87	DEC 2,87	******	******	******		******	******	******		******		******	
DEC 4,87	DEC 3,87	******	******	******		******	******	******		******		******	
DEC 5,87	DEC 4,87	91.0	******	******		******	******	******		******		******	
DEC 6,87	DEC 5,87	37.0	******	******		******	******	******		******		******	
DEC 7,87	DEC 6,87	******	******	******		******	******	******		******		******	
DEC 8,87	DEC 7,87	******	******	******		******	******	******		******		******	
DEC 9,87	DEC 8,87	25.0	!IS ******	******		4.27	******	0.0795	!IS	******	!IS	******	
DEC 10,87	DEC 9,87	412.0	24.5	******		4.28	******	0.0776		2.15		0.41	
DEC 11,87	DEC 10,87	******	******	******		******	******	******		******		******	
DEC 13,87	DEC 12,87	60.0	45.0	******		4.00	******	0.1250		1.60		1.33	
DEC 14,87	DEC 13,87	19.0	!IS ******	******		4.51	******	0.0605	!IS	******	!IS	******	
DEC 16,87	DEC 15,87	396.0	15.0	******		4.50	******	0.0534		0.75		0.37	
DEC 17,87	DEC 16,87	328.0	21.0	******		4.32	******	0.0657		0.55		0.65	
DEC 18,87	DEC 17,87	******	******	******		******	******	******		******		******	
DEC 19,87	DEC 18,87	35.0	22.0	******		4.44	******	0.0625		1.30		0.71	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
OCT 29,87	OCT 28,87	<T	0.06	<W	******	<T	0.005	<W	0.005	<T	0.005		0.150	0.0219
OCT 30,87	OCT 29,87		******		******		******		******		******		******	******
OCT 31,87	OCT 30,87	!RE	******	!RE	******	!RE	******	!RE	******	!RE	******	!RE	******	!RE ******
NOV 4,87	NOV 3,87		0.32		0.85		0.090	UG	1.030		0.345	U	7.000	UG 0.0000
NOV 5,87	NOV 4,87		0.44		0.16		0.045		0.050		0.040		0.740	0.0457
NOV 6,87	NOV 5,87		0.34		0.10		0.030	<T	0.015	<T	0.015		0.185	UG 0.0003
NOV 7,87	NOV 6,87		******		******		******		******		******		******	******
NOV 8,87	NOV 7,87		******		******		******		******		******		******	******
NOV 9,87	NOV 8,87		0.22		0.14	<T	0.010		0.075	<T	0.020		0.685	0.0832
NOV 11,87	NOV 10,87		******		******		******		******		******		******	******
NOV 13,87	NOV 12,87		******		******		******		******		******		******	******
NOV 14,87	NOV 13,87		******		******		******		******		******		******	******
NOV 15,87	NOV 14,87		******		******		******		******		******		******	******
NOV 18,87	NOV 17,87		0.12		0.27	<T	0.025	<T	0.010		0.135		0.035	0.0145
NOV 19,87	NOV 18,87		0.36		0.10		0.025	<T	0.020	<T	0.020		0.540	0.0372
NOV 21,87	NOV 20,87		1.12		0.22		0.075		0.025		0.050		0.310	0.0145
NOV 22,87	NOV 21,87		1.46		0.17		0.135		0.050		0.055		0.240	UG 0.0000
NOV 23,87	NOV 22,87		******		******		******		******		******		******	******
NOV 24,87	NOV 23,87		0.66		0.87		0.095		0.070		0.455		0.725	0.1698
NOV 25,87	NOV 24,87		******		******		******		******		******		******	******
NOV 26,87	NOV 25,87	<T	0.06		0.10	<T	0.005	<T	0.010		0.085		0.180	0.0646
NOV 27,87	NOV 26,87	<W	0.02	<T	0.02	<W	0.005	<W	0.005	<T	0.010		0.035	0.0479
NOV 30,87	NOV 29,87	<W	0.02		0.19	<T	0.005	<W	0.005		0.080	<W	0.005	0.0093
DEC 1,87	NOV 30,87	<W	0.02	<T	0.03	<W	0.005	<W	0.005	<T	0.010	<T	0.025	0.0331
DEC 2,87	DEC 1,87		******		******		******		******		******		******	******
DEC 3,87	DEC 2,87		******		******		******		******		******		******	******
DEC 4,87	DEC 3,87		******		******		******		******		******		******	******
DEC 5,87	DEC 4,87		******		******		******		******		******		******	******
DEC 6,87	DEC 5,87		******		******		******		******		******		******	******
DEC 7,87	DEC 6,87		******		******		******		******		******		******	******
DEC 8,87	DEC 7,87		******		******		******		******		******		******	******
DEC 9,87	DEC 8,87	!IS	******	!IS	******	!IS	******	!IS	******	!IS	******		0.140	0.0537
DEC 10,87	DEC 9,87	<T	0.08		0.27		0.030	<T	0.020		0.415	<T	0.010	0.0525
DEC 11,87	DEC 10,87		******		******		******		******		******		******	******
DEC 13,87	DEC 12,87	!IS	******	<T	0.05	!IS	******	!IS	******	!IS	******		0.220	0.1000
DEC 14,87	DEC 13,87		0.11	!IS	******	<T	0.015	<T	0.025		0.085		0.560	0.0309
DEC 16,87	DEC 15,87	<W	0.02	<T	0.03	<W	0.005	<W	0.005	<T	0.010		0.030	0.0316
DEC 17,87	DEC 16,87	<W	0.02	<T	0.02	<W	0.005	<W	0.005	<T	0.015		0.030	0.0479
DEC 18,87	DEC 17,87		******		******		******		******		******		******	******
DEC 19,87	DEC 18,87	!IS	******		0.30	!IS	******	!IS	******	!IS	******	!IS	******	0.0363

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEN./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 20,87	DEC 19,87	845	840	600	840	2	2.1	2	75279	2	1	49		N
DEC 21,87	DEC 20,87	840	840	840	1700	3	6.8	2	75280	2	1	58		
DEC 24,87	DEC 23,87	835	820	1055	1630	2	2.0	2	75281	2	1	49		N
DEC 25,87	DEC 24,87	825	850	300	850	3	5.4	2	75282	2	1	100		
DEC 26,87	DEC 25,87	855	840	855	1615	1	0.8	2	75283	2	1	115		
DEC 27,87	DEC 26,87	850	850	2230	600	2	0.1	2	75284	2	1	****	E	N
DEC 28,87	DEC 27,87	855	845	910	1830	2	2.3	2	75285	2	1	14		N
DEC 29,87	DEC 28,87	850	850	400	850	2	0.8	2	75286	2	1	11	Q	N
DEC 30,87	DEC 29,87	855	830	855	1530	2	0.2	*	75288	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 20,87	DEC 19,87	67.0	36.0	******	4.10	******	0.1010	1.10	1.03
DEC 21,87	DEC 20,87	255.0	50.0	******	4.10	******	0.1310	5.25	1.23
DEC 24,87	DEC 23,87	64.0	50.0	******	4.01	******	0.1260	4.15	1.39
DEC 25,87	DEC 24,87	347.0	46.5	******	4.04	******	0.1180	2.95	1.21
DEC 26,87	DEC 25,87	59.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
DEC 27,87	DEC 26,87	******	******	******	******	******	******	******	******
DEC 28,87	DEC 27,87	21.0	8.5	******	4.86	******	0.0367	0.85	0.30
DEC 29,87	DEC 28,87	6.0	66.0	******	4.29	******	0.0901	4.75	1.07
DEC 30,87	DEC 29,87	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 20,87	DEC 19,87	!IS ******	0.20	!IS ******	!IS ******	!IS ******	0.140	0.0794
DEC 21,87	DEC 20,87	0.12	0.44	0.025	0.185	UG 1.640	0.280	0.0794
DEC 24,87	DEC 23,87	0.50	0.56	0.050	0.125	UG 1.290	0.325	0.0977
DEC 25,87	DEC 24,87	0.28	0.31	0.030	0.060	UG 0.735	0.200	0.0912
DEC 26,87	DEC 25,87	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.310	!IS ******
DEC 27,87	DEC 26,87	******	******	******	******	******	******	******
DEC 28,87	DEC 27,87	!IS ******	0.09	!IS ******	!IS ******	!IS ******	0.120	0.0138
DEC 29,87	DEC 28,87	!IS ******	0.62	!IS ******	!IS ******	!IS ******	0.130	0.0513
DEC 30,87	DEC 29,87	******	******	******	******	******	******	******